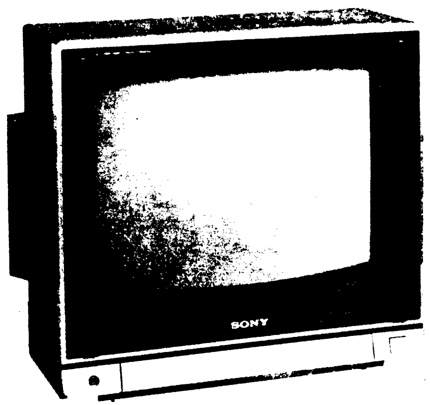
KV-2052ET/ KV-2052EC / KV-2056EC

RM-634 RM-635 RM-635

AEP Model

Chassis No. SCC-507A-A



August, 1983

XE-2 CHASSIS

SPECIFICATIONS

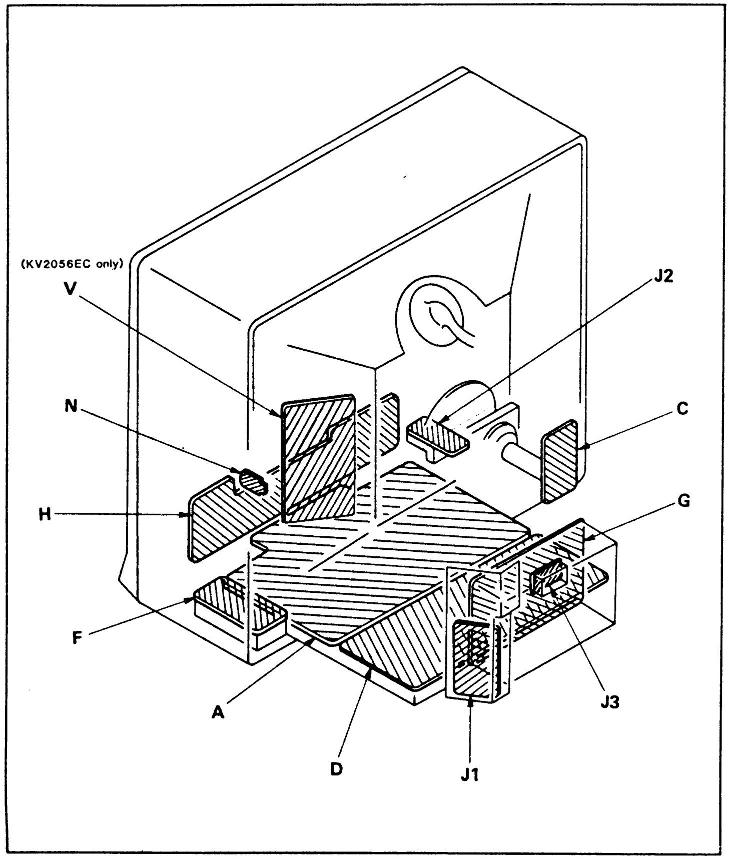
Television system	CCIR TV standards (system B, G and H)
Color system	PAL
Zweiton system	Two-carrier system
Channel coverage	VHF channels E2–U20 UHF channels E21–E68
Programing system	30 programs Automatic programing digital tuning
Picture tube	Approx. 52 cm (20 inches) 100-degree deflection Trinitron system (Approx. 49 cm screen measured diagonally
Antenna	75-ohm standard antenna socket (DIN45325/IEC169-2)
Audio output	5 W + 5 W (with 10% harmonic distortion)
Inputs	AV connector (6-pin DIN) Video input: 1.0V p-p, impedance 75 ohms, sync negative Audio input: 0.1–2 Vrms impedance more than 10 kilohms
Outputs	AV connector (6-pin DIN) Video output: 1.0 V p-p, impedance 75 ohms, sync negative Audio output: 0.1–2 Vrms impedance less than 1 kilohm Audio output connector (5-pin DIN) Recording output: 1 mVrms/kilohm Line output: variable, 0–2 Vrms (max.) impedance less than 1 kilohm External speaker terminals (2-pin DIN) For 4–8 ohm speakers Headphones jack (stereo phone jack)
Power requirements	220–240 V ac, 50 Hz
Power consumption	105 W (Approx. 11 W in standby condition)
Dimensions	Approx. 522 × 502 × 513 mm (w/h/d)
Weight	Approx. 31 kg (68 lb 6 oz)
Accessory supplied	Remote Commander RM-635

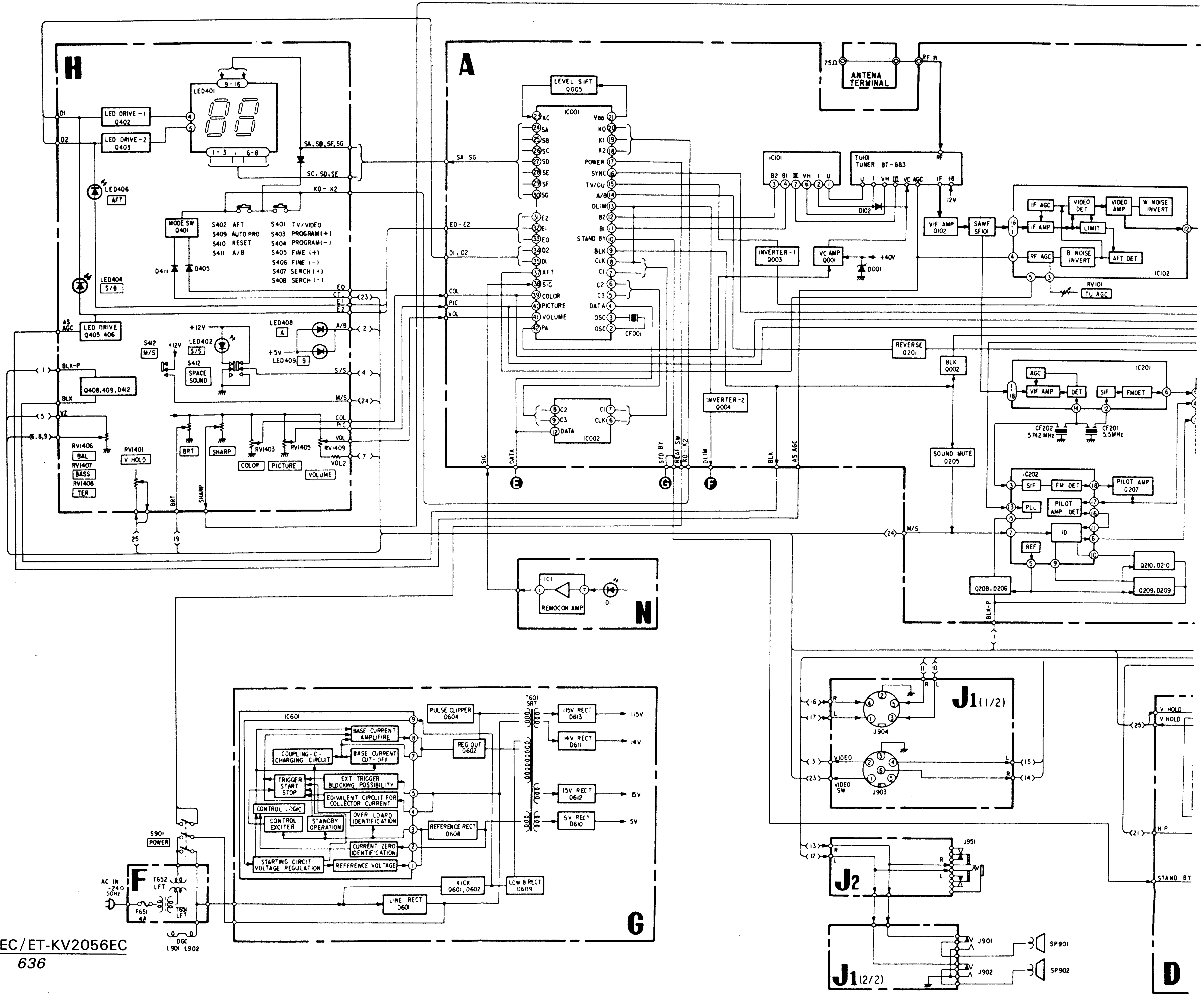
Optional accessories

OPK-102 SECAM adaptor
VMC-366 video monitor cable (6-pin to 6-pin)
VMC-368 video monitor cable (6-pin to 8-pin)
RK-140 connecting cord (6-pin to BNC and phono)

Design and specifications are subject to change without notice.

CIRCUIT BOARDS LOCATION




H
LED401
9-16
1-3 , 6-8
LED DRIVE-1 Q402
LED DRIVE-2 Q403
D1
D2
SA, SB, SF, SG
SC, SD, SE
KO-K2
LED406 AFT
MODE SW Q401
S402 AFT
S409 AUTO PRO
S410 RESET
S411 A/B
S401 TV/VIDEO
S403 PROGRAM(+)
S404 PROGRAM(-)
S405 FINE (+)
S406 FINE (-)
S407 SERCH (+)
S408 SERCH (-)
D411
D405
LED404 S/B
E0
CTL
E1
E2
AS AGC
LED DRIVE Q405 406
LED408 A
+12V
LED402 S/S
+5V
LED409 B
A/B
S412 M/S
S412 SPACE SOUND
S/S
M/S
BLK-P
Q408, 409, D412
BLK
VZ
COL
PIC
VOL
VOL 2
RV1406 BAL
RV1407 BASS
RV1408 TER
RV1401 V HOLD
BRT
SHARP
RV1403 COLOR
RV1405 PICTURE
RV1409 VOLUME
BRT
SHARP
25
19
A
LEVEL SIFT Q005
IC001
AC
SA
SB
SC
SD
SE
SF
SG
E2
E1
E0
D2
D1
AFT
SIG
COLOR
PICTURE
VOLUME
PA
VDD
K0
K1
K2
POWER
SYNC
TV/GU
A/B
DLIM
B2
B1
STAND BY
BLK
CLK
C1
C2
C3
DATA
OSC
CF001
SA-SG
E0-E2
D1, D2
COL
PIC
VOL
IC002
C2
C3
DATA
C1
CLK
SIG
DATA
STD BY
REAF SW
KO-K2
DLIM
BLK
AS AGC
E
G
F
INVERTER-2 Q004
75Ω
ANTENA TERMINAL
RF IN
IC101
B2 B1 III VH I U
TU101 TUNER BT-883
U I VH III VC AGC IF +B RF
12V
D102
INVERTER-1 Q003
VC AMP Q001
+40V
D001
VIF AMP Q102
SAWF SF101
IF AGC
IF AMP
VIDEO DET
LIMIT
VIDEO AMP
W NOISE INVERT
RF AGC
B NOISE INVERT
AFT DET
IC102
RV101 TU AGC
REVERSE Q201
BLK Q002
IC201
AGC
VIF AMP
DET
SIF
FMDET
CF202 5.742MHz
CF201 5.5MHz
SOUND MUTE D205
IC202
SIF
FM DET
PILOT AMP Q207
PLL
PILOT AMP DET
ID
REF
Q210, D210
Q209, D209
Q208, D206
M/S
BLK-P
N
IC1
REMOCON AMP
D1
J1(1/2)
R
L
J904
VIDEO
VIDEO SW
J903
J2
J951
J1(2/2)
J901
J902
SP901
SP902
V HOLD
H P
STAND BY
D
G
IC601
PULSE CLIPPER D604
BASE CURRENT AMPLIFIRE
COUPLING-C-CHARGING CIRCUIT
BASE CURRENT CUT-OFF
REG OUT Q602
TRIGGER START STOP
EXT TRIGGER BLOCKING POSSIBILITY
EQIVALENT CIRCUIT FOR COLLECTOR CURRENT
CONTROL LOGIC
CONTROL EXCITER
STANDBY OPERATION
OVER LOARD IDENTIFICATION
REFERENCE RECT D608
CURRENT ZERO IDENTIFICATION
STARTING CIRCIT VOLTAGE REGULATION
REFERENCE VOLTAGE
KICK Q601, D602
LOW B RECT D609
LINE RECT D601
T601 SRT
115V RECT D613
115V
14V RECT D611
14V
15V RECT D612
15V
5V RECT D610
5V
S901 POWER
F
AC IN ~240 50Hz
T652 LFT
T651 LFT
F651 4A
DGC L901 L902

KV2052EC/ET-KV2056EC

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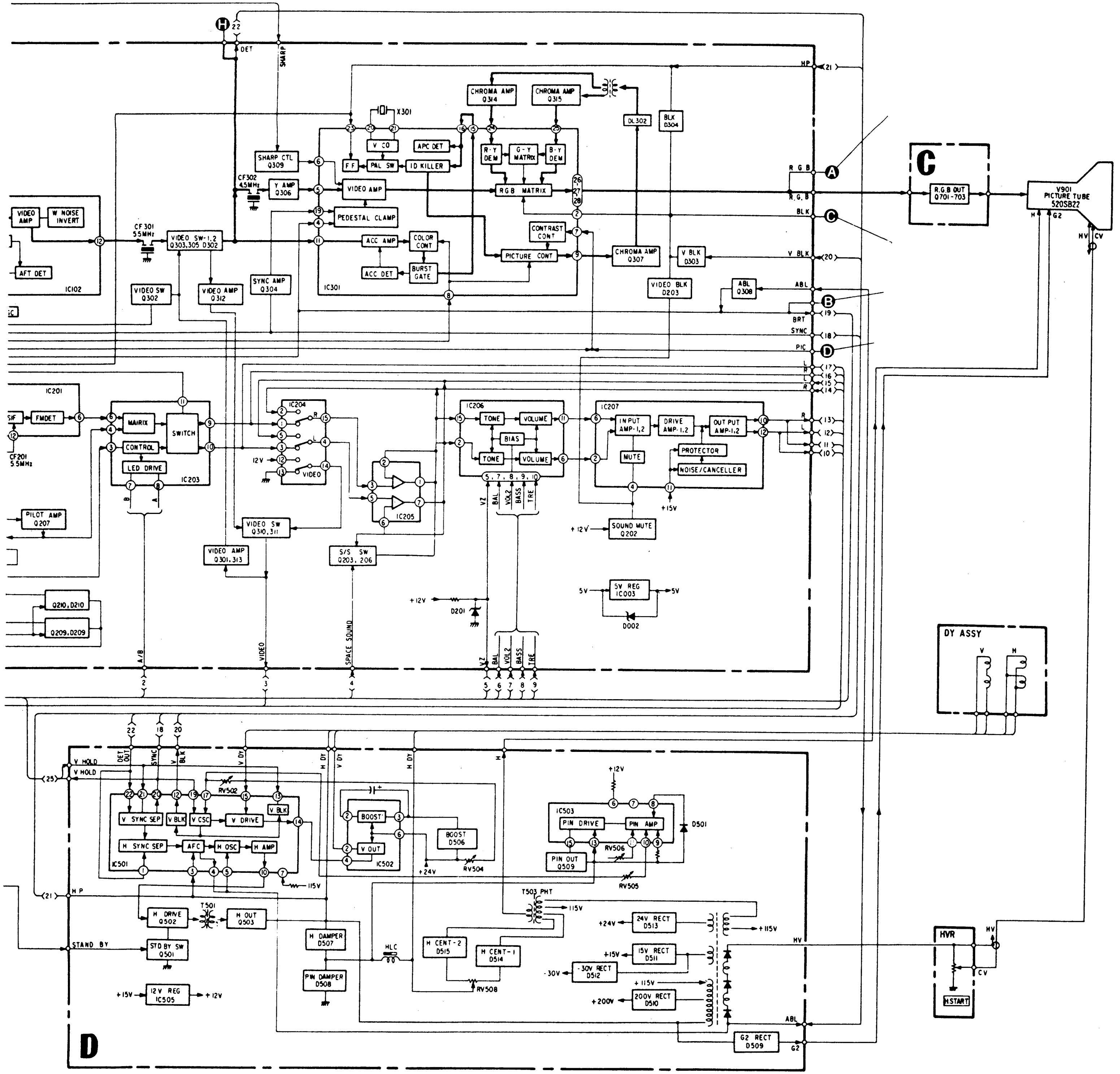
H
22
DET
SHARP
HP
21
CHROMA AMP Q314
CHROMA AMP Q315
X301
SHARP CTL Q309
V CO
APC DET
R-Y DEM
G-Y MATRIX
B-Y DEM
DL302
BLK D304
F F
PAL SW
ID KILLER
CF302 4.5MHz
Y AMP Q306
VIDEO AMP
RGB MATRIX
R G B
A
R.G.B
C
R.G.B OUT Q701-703
V901 PICTURE TUBE 520SB22
H
G2
HV
CV
VIDEO AMP
W NOISE INVERT
PEDESTAL CLAMP
BLK
CONTRAST CONT
CF301 5.5MHz
VIDEO SW-1,2 Q303,305 D302
ACC AMP
COLOR CONT
PICTURE CONT
CHROMA AMP Q307
V BLK D303
V BLK
20
AFT DET
ACC DET
BURST GATE
IC102
IC301
VIDEO SW Q302
VIDEO AMP Q312
SYNC AMP Q304
VIDEO BLK D203
ABL Q308
ABL
B
BRT
19
SYNC
18
PIC
D
L
R
17
16
15
14
IC201
SIF
FMDET
CF201 5.5MHz
MATRIX
SWITCH
CONTROL
LED DRIVE
IC203
IC204
12V
VIDEO
IC205
IC206
TONE
VOLUME
BIAS
IC207
INPUT AMP-1,2
DRIVE AMP-1,2
OUT PUT AMP-1,2
MUTE
PROTECTOR
NOISE/CANCELLER
13
12
11
10
+15V
PILOT AMP Q207
VIDEO SW Q310,311
VIDEO AMP Q301,313
S/S SW Q203,206
VZ
BAL
VOL2
BASS
TRE
+12V
SOUND MUTE Q202
5V
5V REG IC003
D002
+12V
D201
Q210,D210
Q209,D209
A/B
SPACE SOUND
2
3
4
5
6
7
8
9
DY ASSY
V
H
22
18
20
DET OUT
SYNC
V BLK
V DY
H DY
V HOLD
V HOLD
25
RV502
V SYNC SEP
V BLK
V CSC
V DRIVE
V BLK
H SYNC SEP
AFC
H OSC
H AMP
IC501
115V
BOOST
V OUT
IC502
BOOST D506
+24V
RV504
+12V
IC503
PIN DRIVE
PIN AMP
D501
RV506
PIN OUT Q509
RV505
H P
21
H DRIVE Q502
T501
H OUT Q503
T503 PHT
115V
+24V
24V RECT D513
+115V
STAND BY
STD BY SW Q501
H DAMPER D507
HLC
H CENT-2 D515
H CENT-1 D514
+15V
15V RECT D511
HV
HVR
-30V
-30V RECT D512
CV
+15V
12V REG IC505
+12V
PIN DAMPER D508
RV508
+115V
+200V
200V RECT D510
H.START
ABL
G2 RECT D509
G2
D

KV2052EC/ET-KV2056EC

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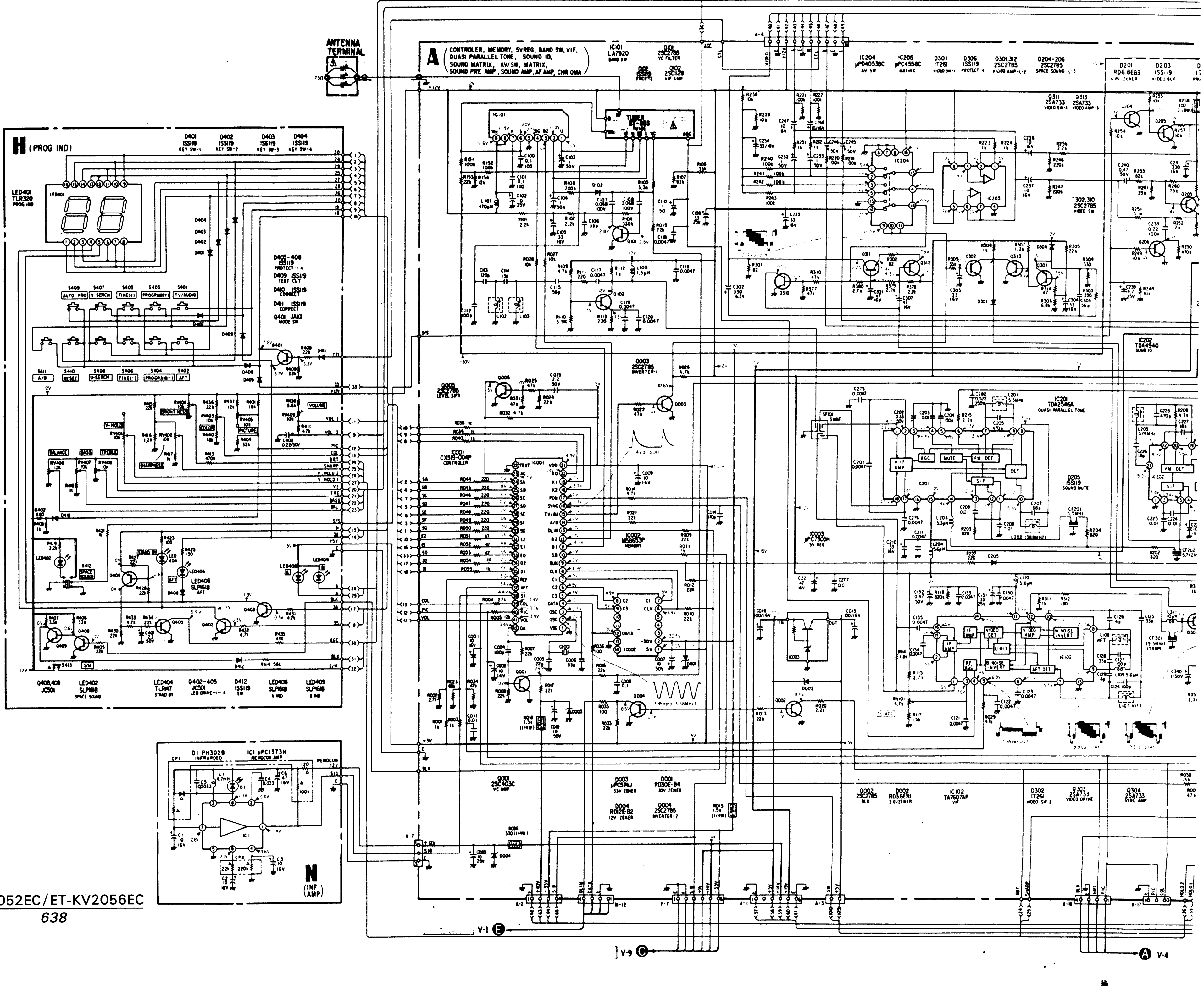
ANTENNA TERMINAL
A
CONTROLER, MEMORY, 5VREG, BAND SW, VIF, QUASI PARALLEL TONE, SOUND ID, SOUND MATRIX, AV/SW, MATRIX, SOUND PRE AMP, SOUND AMP, AF AMP, CHR OMA
IC101 LA7920 BAND SW
Q101 2SC2785 VC FILTER
Q102 2SC1128 VIF AMP
TUNER ET-683
H (PROG IND)
LED401 TLR320 PROG IND
D401 1SS119 KEY SW-1
D402 1SS119 KEY SW-2
D403 1SS119 KEY SW-3
D404 1SS119 KEY SW-4
D405-408 1SS119 PROTECT-1-4
D409 1SS119 TEXT CUT
D410 1SS119 CORRECT
D411 1SS119 CORRECT
Q401 JA101 MODE SW
S409 AUTO PRO
S407 V-SERCH
S405 FINE(+)
S403 PROGRAM(+)
S401 TV/AUDIO
S411 A/B
S410 RESET
S408 U-SERCH
S406 FINE(-)
S404 PROGRAM(-)
S402 AFT
VOLUME
BRIGHTNESS
COLOR
PICTURE
V-HOLD
BALANCE
BASS
TREBLE
SHARPNESS
STAND BY
SPACE SOUND
Q408,409 JC501
LED402 SLP161B SPACE SOUND
LED404 TLR147 STAND BY
Q402-405 JC501 LED DRIVE-1-4
D412 1SS119 SW
LED408 SLP161B A IND
LED409 SLP161B B IND
Q005 2SC2785 LEVEL SIFT
Q003 2SC2785 INVERTER-1
IC001 CX519-004P CONTROLER
IC002 M58653P MEMORY
Q001 2SC403C VC AMP
D003 µPC574J 33V ZENER
D001 R030E-B4 30V ZENER
D004 R012E-B2 12V ZENER
Q004 2SC2785 INVERTER-2
Q002 2SC2785 BLK
D002 R036EH1 3.6VZENER
IC102 TA7607AP VIF
D1 PH302B INFRARDED
IC1 µPC1373H REMOCON AMP
N (INF AMP)
REMOCON
IC204 µPD4053BC AV SW
IC205 µPC4558C MATRIX
D301 1T261 VIDEO SW-1
D306 1SS119 PROTECT 4
Q301,312 2SC2785 VIDEO AMP-1,-2
Q204-206 2SC2785 SPACE SOUND-1,-3
Q311 2SA733 VIDEO SW 3
Q313 2SA733 VIDEO AMP 3
D201 RD6.6EB3 6.6V ZENER
D203 1SS119 VIDEO BLK
302,310 2SC2785 VIDEO SW
IC202 TDA4940 SUND ID
IC201 TDA2546A QUASI PARALLEL TONE
D205 1SS119 SOUND MUTE
IC003 µPC7805H 5V REG
D302 1T261 VIDEO SW 2
Q303 2SA733 VIDEO DRIVE
Q304 2SA733 SYNC AMP
V-1 E
V-9 C
A V-4

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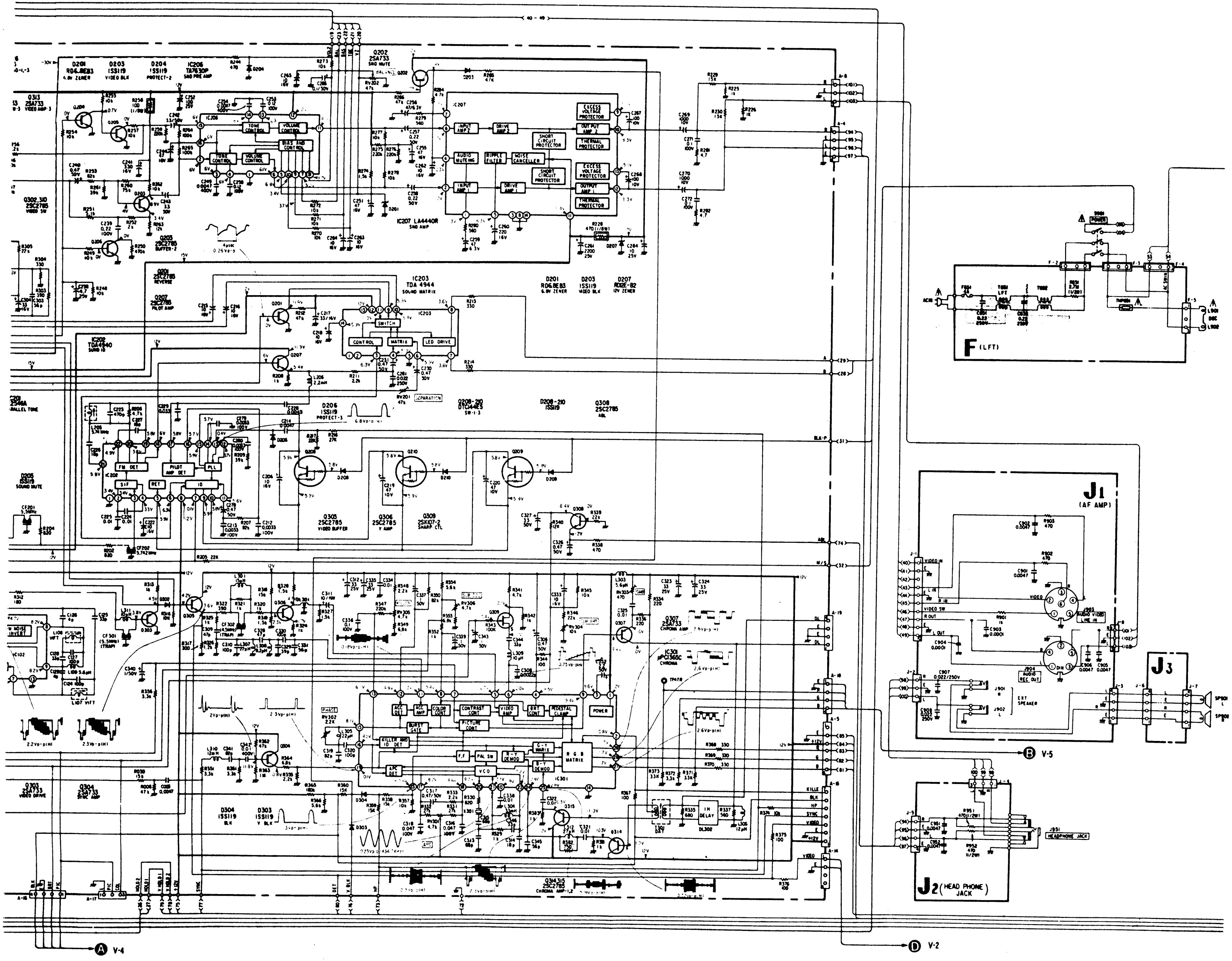
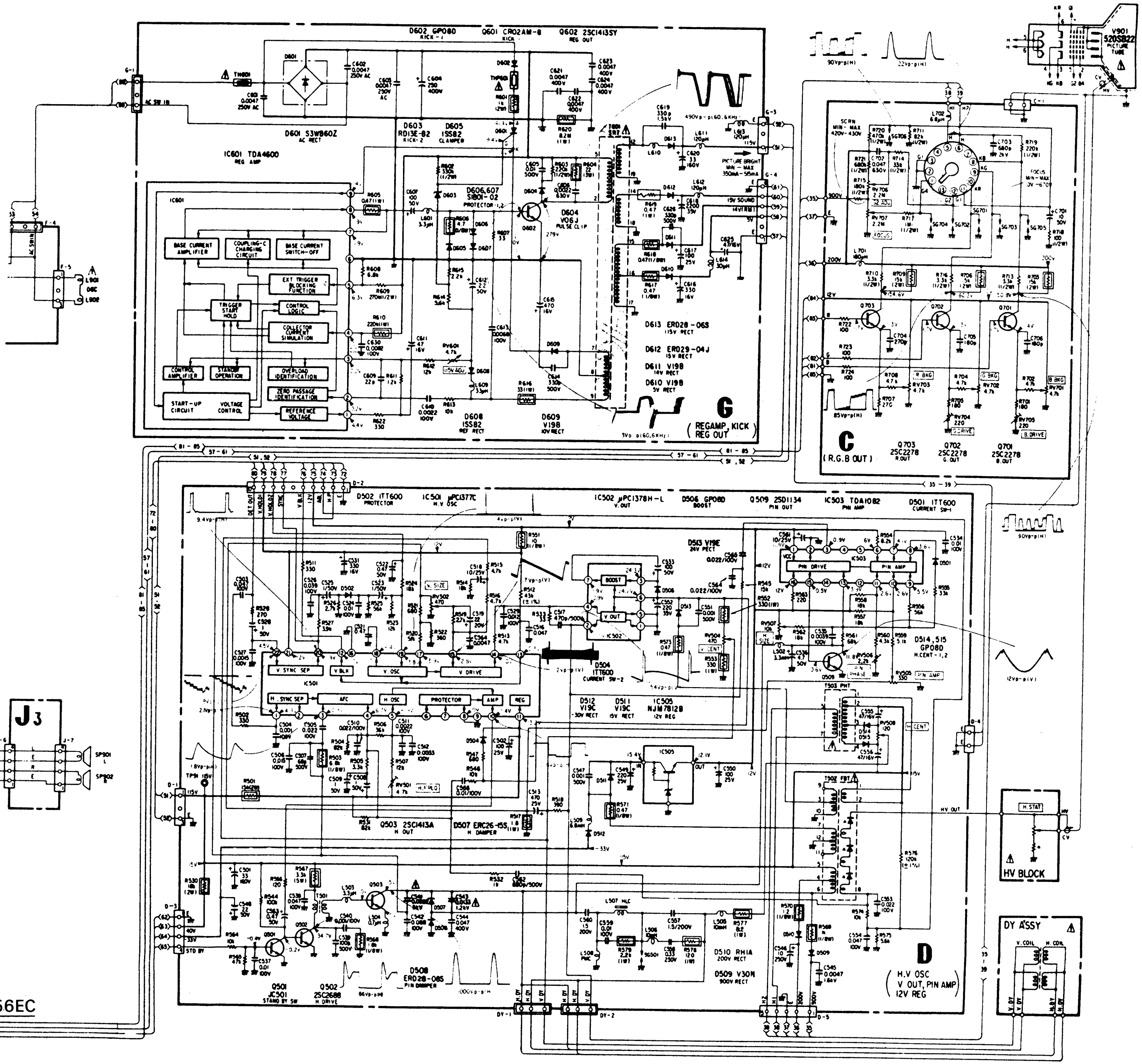

Q201 RD6.8EB3 6.8V ZENER
D203 1SS119 VIDEO BLK
D204 1SS119 PROTECT-2
IC206 TA7630P SND PRE AMP
Q202 2SA733 SND MUTE
Q313 2SA733 VIDEO AMP-3
TONE CONTROL
VOLUME CONTROL
BIAS AND CONTROL
IC207 LA4440R SND AMP
INPUT AMP 2
DRIVE AMP 2
INPUT AMP 1
DRIVE AMP 1
AUDIO MUTING
RIPPLE FILTER
NOISE CANCELLER
SHORT CIRCUIT PROTECTOR
EXCESS VOLTAGE PROTECTOR
OUT PUT AMP 2
OUTPUT AMP 1
THERMAL PROTECTOR
Q302,310 2SC2785 VIDEO SW
Q203 2SC2785 BUFFER-2
Q201 2SC2785 REVERSE
Q207 2SC2785 PILOT AMP
IC203 TDA 4944 SOUND MATRIX
SWITCH
CONTROL
MATRIX
LED DRIVE
D201 RD6.8EB3 6.8V ZENER
D203 1SS119 VIDEO BLK
D207 RD12E-B2 12V ZENER
IC202 TDA4940 SUND ID
RV201 47k SEPARATION
D206 1SS119 PROTECT-3
Q208-210 DTC144ES SW-1-3
D208-210 1SS119
Q308 2SC2785 ABL
FM DET
PILOT AMP DET
PLL
SIF
RET
ID
D205 1SS119 SOUND MUTE
CF201 5.5MHz
CF202 5.742MHz
Q305 2SC2785 VIDEO BUFFER
Q306 2SC2785 Y AMP
Q309 2SK107-2 SHARP CTL
CF301 (5.5MHz) (TRAP)
CF302 (4.5MHz) (TRAP)
IC301 μPC1365C CHROMA
Q307 2SA733 CHROMA AMP
ACC DET
ACC AMP
COLOR CONT
CONTRAST CONT
VIDEO AMP
BRT CONT
PEDESTAL CLAMP
POWER
BURST GATE
PICTURE CONT
KILLER AND ID DET
APC DET
F.F
PAL SW
R-Y DEMOD
B-Y DEMOD
G-Y MATRIX
VCO
R G B MATRIX
PHASE RV302 2.2K
Q303 2SA733 VIDEO DRIVE
Q304 2SA733 SYNC AMP
D304 1SS119 BLK
D303 1SS119 V BLK
Q314,315 2SC2785 CHROMA AMP-1,2
1H DELAY DL302
2Vp-p(H)
2.3Vp-p(H)
2.2Vp-p(H)
0.23Vp-p 4.434(MHz)
2.6Vp-p(H)
6.8Vp-p(H)
0.26Vp-p
F (LFT)
S901 POWER
F-2
F-3
F-4
F-5
AC IN
F901 4A
T901 LFT
T902
R901 2.7Ω (1/2W)
THP901
C901 0.22 250V
C902 0.22 250V
L901 DGC
L902
J1 (AF AMP)
VIDEO IN
VIDEO SW
R OUT
L OUT
J903 AUDIO VIDEO LINE IN
J904 AUDIO REC OUT
J901 EXT SPEAKER R
J902 L
J3
SP901 L
SP902 R
J2 (HEAD PHONE JACK)
J951 HEADPHONE JACK
R951 470(1/2W)
R952 470 (1/2W)
A-8
A-4
A-19
A-16
A-5
A-15
A-14
A-18
A-17
KILLE
BLK
HP
SYNC
VIDEO
ABL
BLK-P
M/S
DET
V BLK
A V-4
B V-5
D V-2
40 - 49


D602 GP08D KICK-1
Q601 CR02AM-8 KICK
Q602 2SC1413SY REG OUT
D601 S3WB60Z AC RECT
D603 RD13E-B2 KICK-2
D605 1SS82 CLAMPER
IC601 TDA4600 REG AMP
D606,607 S1B01-02 PROTECTOR-1,2
D604 V06J PULSE CLIP
D613 ER028-06S 115V RECT
D612 ER029-04J 15V RECT
D611 V19B 14V RECT
D610 V19B 5V RECT
D608 1SS82 REF RECT
D609 V19B 10V RECT
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SWITCH-OFF
EXT TRIGGER BLOCKING FUNCTION
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
PICTURE BRIGHT MIN - MAX 350mA - 55mA
G
(REGAMP, KICK REG OUT)
V901 520SB22 PICTURE TUBE
SCRN MIN - MAX 420V - 430V
FOCUS MIN - MAX 0V - 670V
Q703 2SC2278 R.OUT
Q702 2SC2278 G.OUT
Q701 2SC2278 B.OUT
C
(R.G.B OUT)
D502 ITT600 PROTECTOR
IC501 μPC1377C H.V. OSC
IC502 μPC1378H-L V.OUT
D506 GP08D BOOST
Q509 2SD1134 PIN OUT
IC503 TDA1082 PIN AMP
D501 ITT600 CURRENT SW-1
V.SYNC SEP
V.BLK
V.OSC
V.DRIVE
H.SYNC SEP
AFC
H.OSC
PROTECTOR
AMP
REG
BOOST
V OUT
PIN DRIVE
PIN AMP
D504 ITT600 CURRENT SW-2
D512 V19C -30V RECT
D511 V19C 15V RECT
IC505 NJM7812B 12V REG
D514, 515 GP08D H.CENT-1,2
Q503 2SC1413A H OUT
D507 ERC26-15S H DAMPER
D508 ER028-08S PIN DAMPER
Q501 JC501 STAND BY SW
Q502 2SC2688 H DRIVE
D510 RH1A 200V RECT
D509 V30N 900V RECT
T503 PHT
T502 FBT
H.STAT
HV BLOCK
DY ASSY
V.COIL
H.COIL
J3
SP901 L
SP902 R
D
(H.V OSC V OUT, PIN AMP 12V REG)

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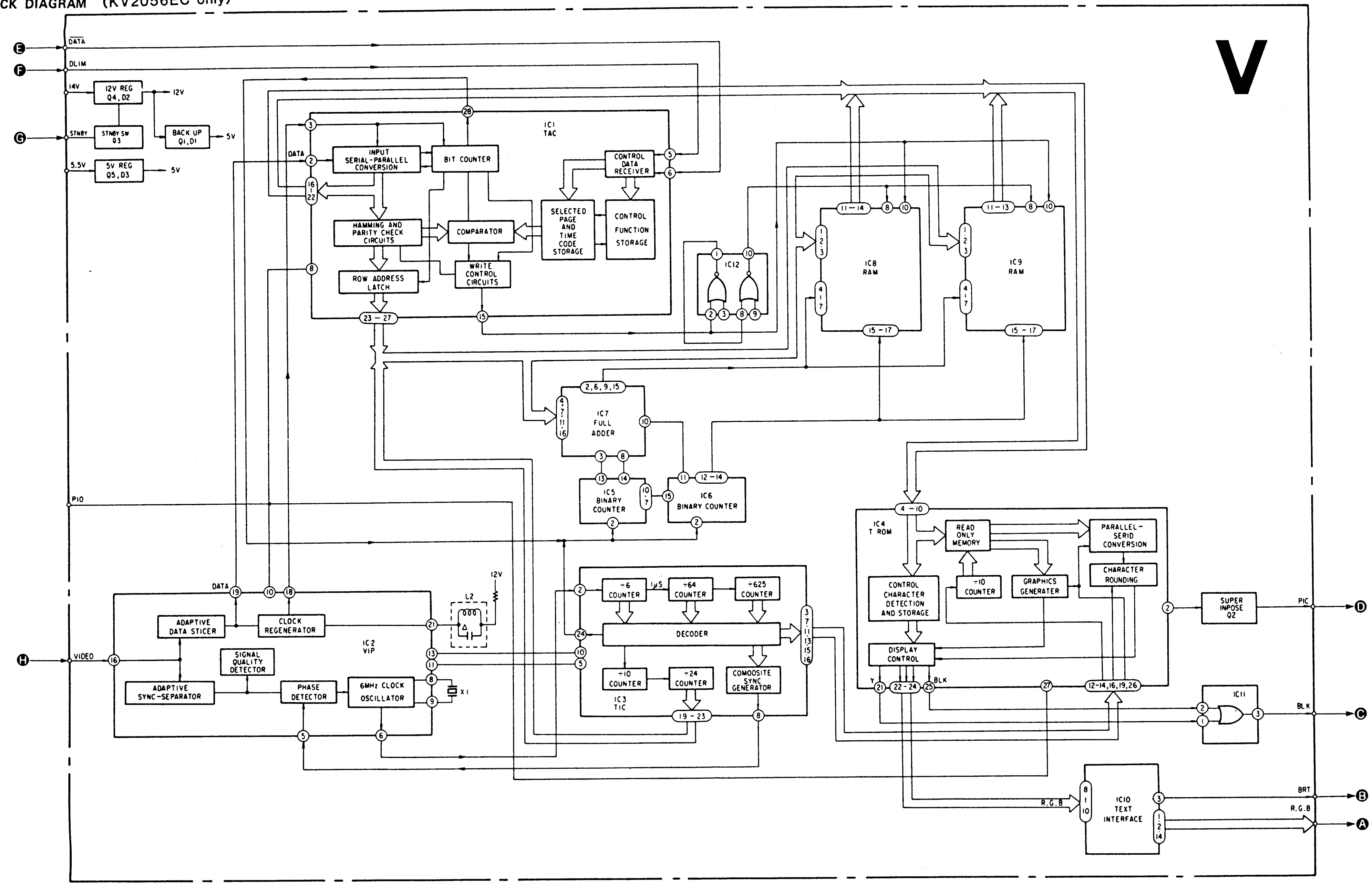
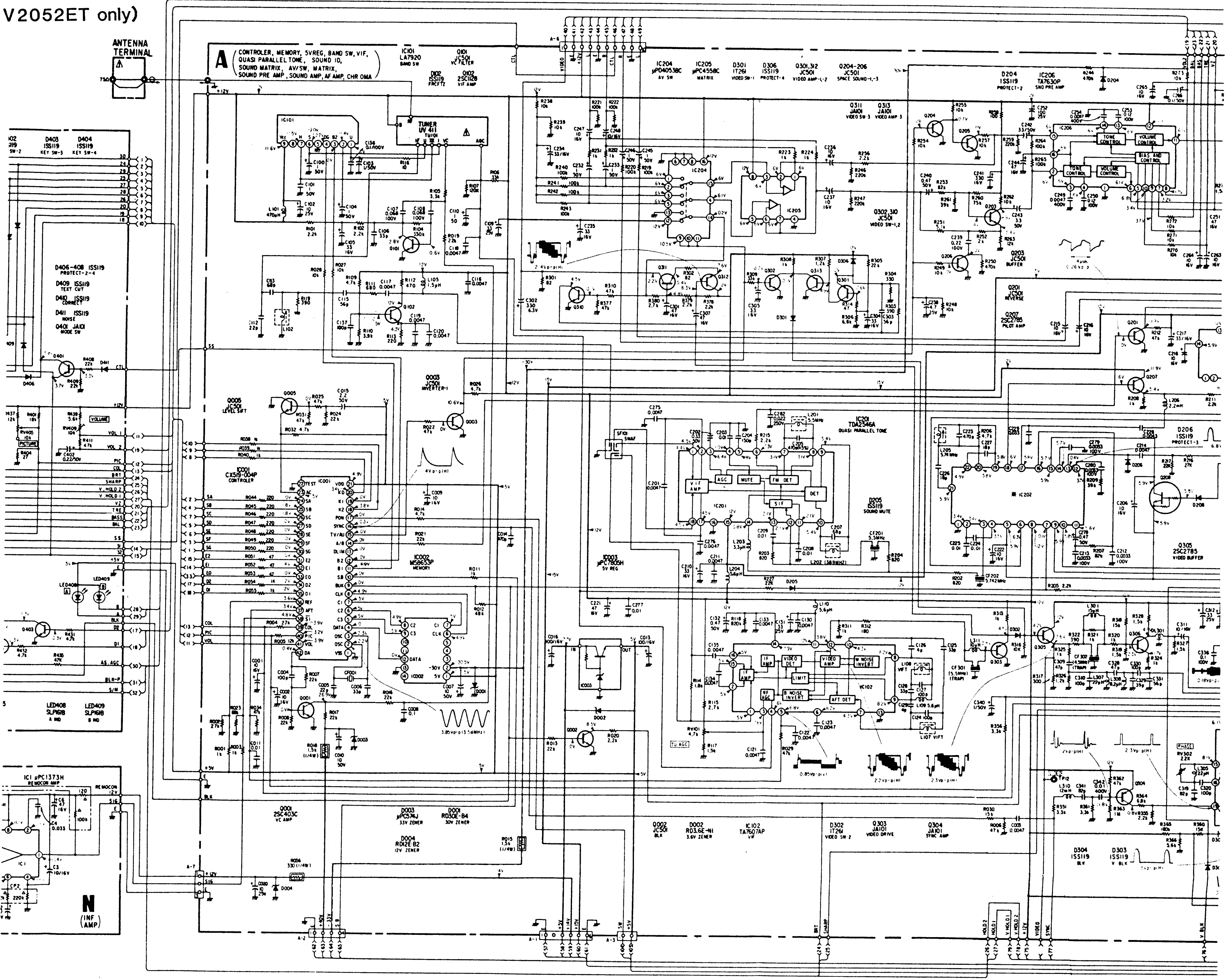
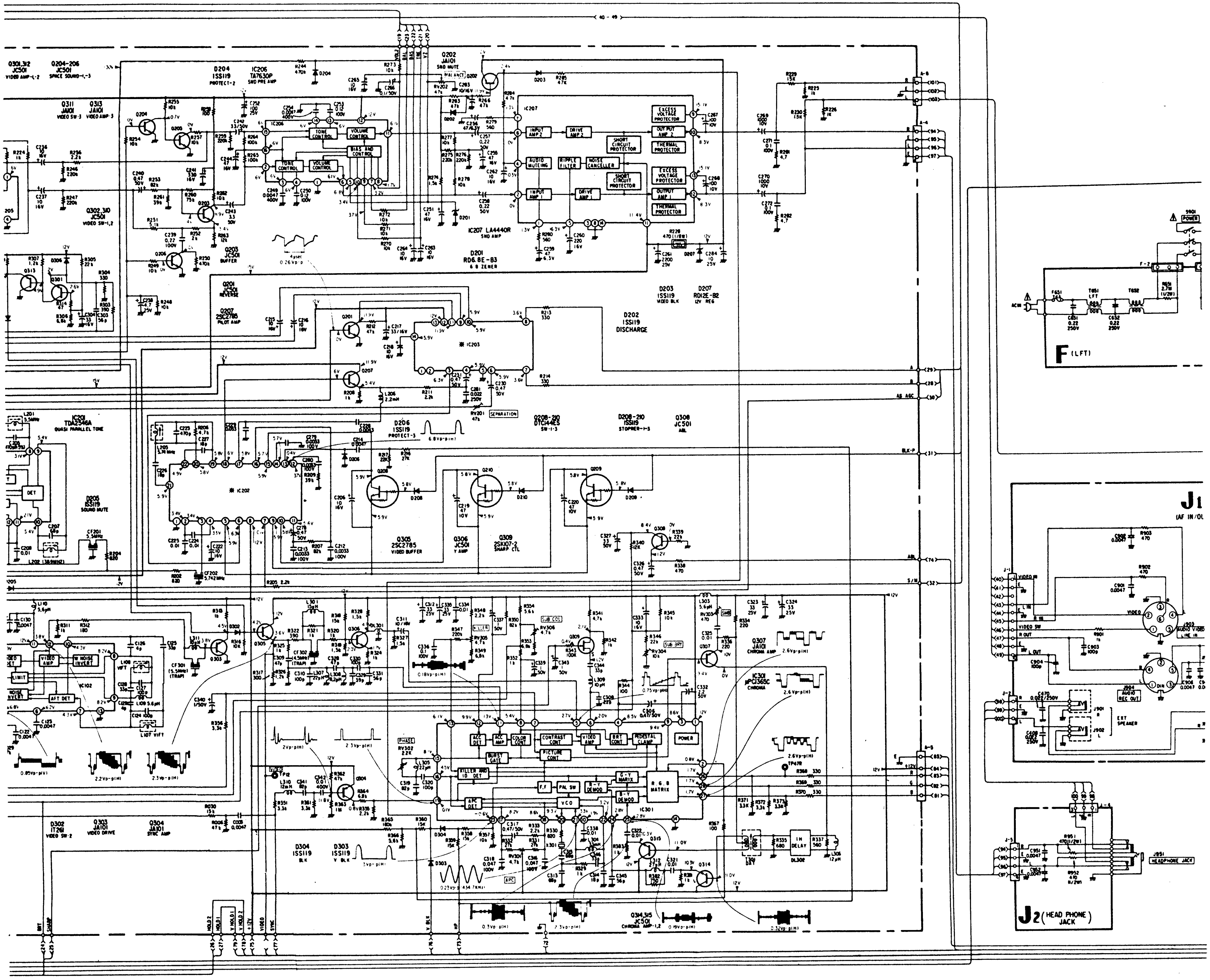
BLOCK DIAGRAM (KV2056EC only)

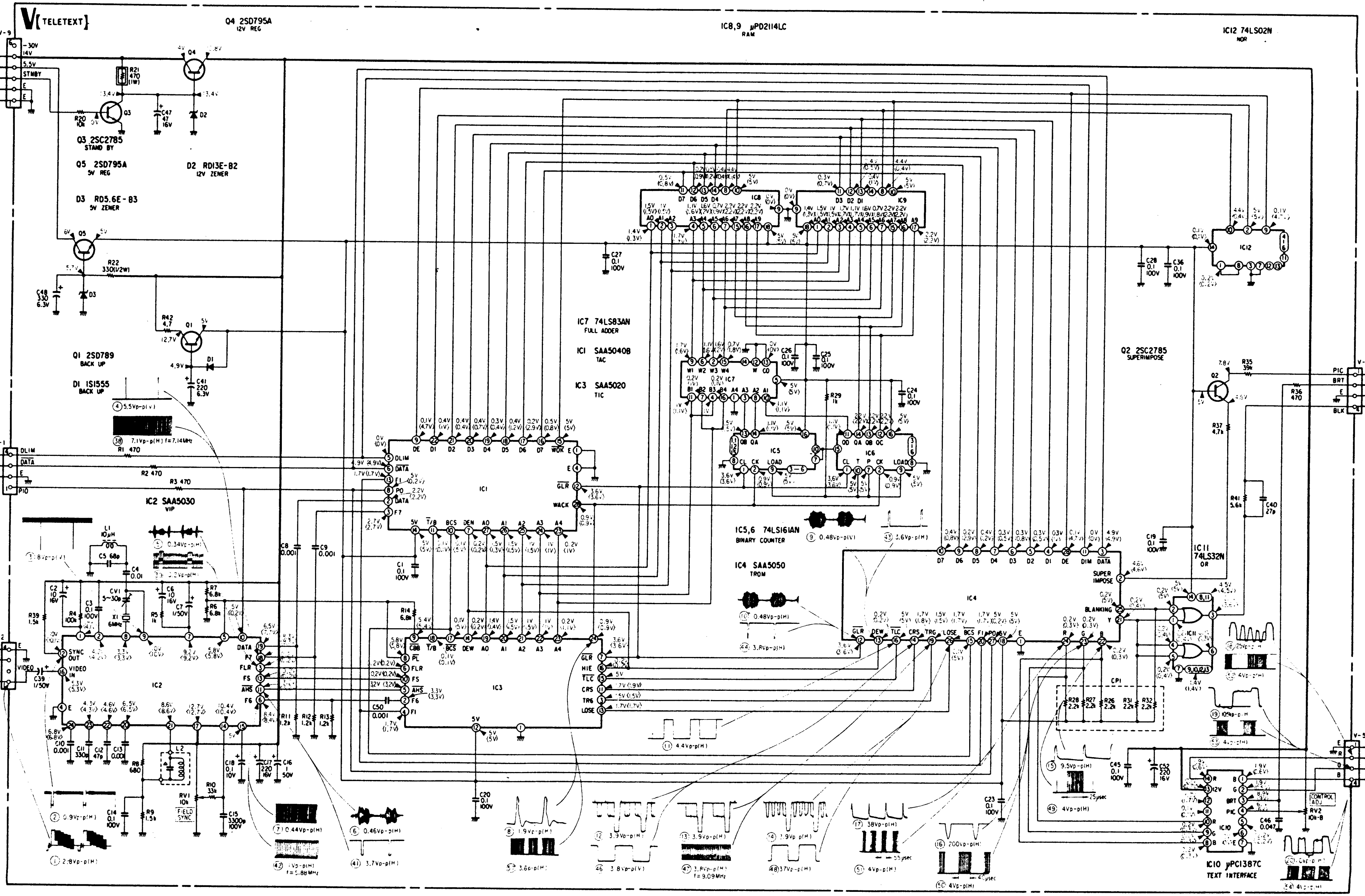

V
E
F
G
H
D
C
B
A
DATA
DLIM
14V
12V REG Q4, D2
12V
STNBY
STNBY SW Q3
BACK UP Q1, D1
5V
5.5V
5V REG Q5, D3
5V
IC1 TAC
INPUT SERIAL-PARALLEL CONVERSION
BIT COUNTER
CONTROL DATA RECEIVER
HAMMING AND PARITY CHECK CIRCUITS
COMPARATOR
SELECTED PAGE AND TIME CODE STORAGE
CONTROL FUNCTION STORAGE
ROW ADDRESS LATCH
WRITE CONTROL CIRCUITS
IC12
IC8 RAM
IC9 RAM
IC7 FULL ADDER
IC5 BINARY COUNTER
IC6 BINARY COUNTER
P10
IC4 T ROM
READ ONLY MEMORY
PARALLEL-SERID CONVERSION
CHARACTER ROUNDING
CONTROL CHARACTER DETECTION AND STORAGE
÷10 COUNTER
GRAPHICS GENERATER
DISPLAY CONTROL
Y
BLK
SUPER INPOSE Q2
PIC
IC11
BLK
IC10 TEXT INTERFACE
R.G.B
BRT
R.G.B
IC2 VIP
VIDEO
ADAPTIVE DATA STICER
CLOCK REGENERATOR
SIGNAL QUALITY DETECTOR
ADAPTIVE SYNC-SEPARATOR
PHASE DETECTOR
6MHz CLOCK OSCILLATOR
L2
12V
X1
IC3 TIC
÷6 COUNTER
1μS
÷64 COUNTER
÷625 COUNTER
DECODER
÷10 COUNTER
÷24 COUNTER
COMOOSITE SYNC GENERATOR
2, 6, 9, 15
11 – 14
11 – 13
15 – 17
23 – 27
16 – 22
12 – 14
4 – 10
22 – 24
12-14, 16, 19, 26
19 – 23

(KV2052ET only)

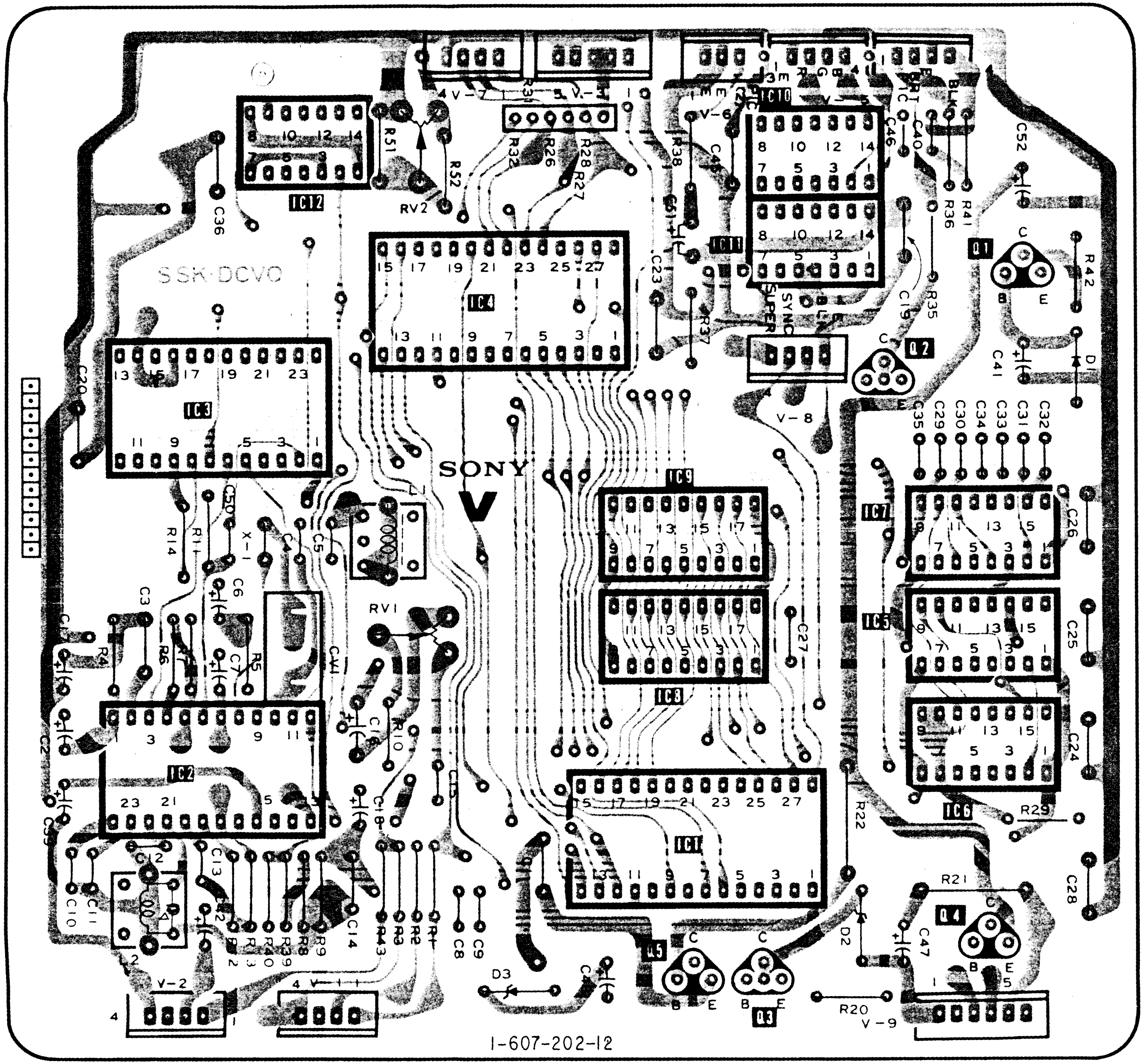

ANTENNA TERMINAL
A
CONTROLER, MEMORY, 5VREG, BAND SW, VIF, QUASI PARALLEL TONE, SOUND ID, SOUND MATRIX, AV/SW, MATRIX, SOUND PRE AMP, SOUND AMP, AF AMP, CHR OMA
IC101 LA7920 BAND SW
Q101 JC501 VC FILTER
Q102 2SC1128 VIF AMP
D102 1SS119 FRCFTZ
TUNER UV 411 TU101
IC204 µPD4053BC AV SW
IC205 µPC4558C MATRIX
D301 IT261 VIDEO SW-1
D306 1SS119 PROTECT-4
Q301,312 JC501 VIDEO AMP-L-2
Q204-206 JC501 SPACE SOUND-1,-3
D204 1SS119 PROTECT-2
IC206 TA7630P SND PRE AMP
Q311 JA101 VIDEO SW 3
Q313 JA101 VIDEO AMP 3
Q302,310 JC501 VIDEO SW-1,2
Q203 JC501 BUFFER
Q201 JC501 REVERSE
Q207 2SC2785 PILOT AMP
TONE CONTROL
VOLUME CONTROL
BIAS AND CONTROL
D403 1SS119 KEY SW-3
D404 1SS119 KEY SW-4
D406-408 1SS119 PROTECT-2-4
D409 1SS119 TEXT CUT
D410 1SS119 CORRECT
D411 1SS119 NOISE
Q401 JA101 MODE SW
VOLUME
PICTURE
Q005 JC501 LEVEL SIFT
Q003 JC501 INVERTER-1
IC001 CX519-004P CONTROLER
IC002 M58653P MEMORY
IC201 TDA2546A QUASI PARALLEL TONE
V IF AMP
AGC
MUTE
FM DET
DET
SIF
D205 1SS119 SOUND MUTE
IC202
D206 1SS119 PROTECT-3
Q305 2SC2785 VIDEO BUFFER
IC003 µPC7805H 5V REG
IF AMP
VIDEO DET
VIDEO AMP
W NOISE INVERT
LIMIT
RF AGC
B NOISE INVERT
AFT DET
IC102
TU AGC
LED408 SLP161B A IND
LED409 SLP161B B IND
IC1 µPC1373H REMOCON AMP
N (INF AMP)
Q001 2SC403C VC AMP
D003 µPC574J 33V ZENER
D001 RD30E-B4 30V ZENER
D004 RD12E-B2 12V ZENER
Q002 JC501 BLK
D002 RD3.6E-N1 3.6V ZENER
IC102 TA7607AP VIF
D302 IT261 VIDEO SW 2
Q303 JA101 VIDEO DRIVE
Q304 JA101 SYNC AMP
D304 1SS119 BLK
D303 1SS119 V BLK
PHASE
RV302 22K
A-2
A-1
A-3
A-6
A-7


Q301,312 JC501 VIDEO AMP-1,2
Q204-206 JC501 SPACE SOUND-1,-3
Q311 JA101 VIDEO SW-3
Q313 JA101 VIDEO AMP-3
D204 1SS119 PROTECT-2
IC206 TA7630P SND PRE AMP
Q202 JA101 SND MUTE
BALANCE
TONE CONTROL
VOLUME CONTROL
BIAS AND CONTROL
INPUT AMP 2
DRIVE AMP 2
INPUT AMP 1
DRIVE AMP 1
AUDIO MUTEING
RIPPLE FILTER
NOISE CANCELLER
SHORT CIRCUIT PROTECTOR
EXCESS VOLTAGE PROTECTOR
OUTPUT AMP 2
OUTPUT AMP 1
THERMAL PROTECTOR
IC207 LA4440R SND AMP
D201 RD6.8E-B3 6.8 ZENER
Q302,310 JC501 VIDEO SW-1,2
Q203 JC501 BUFFER
Q201 JC501 REVERSE
Q207 2SC2785 PILOT AMP
D203 1SS119 VIDEO BLK
D207 RD12E-B2 12V REG
D202 1SS119 DISCHARGE
IC203
IC201 TDA2546A QUASI PARALLEL TONE
IC202
D206 1SS119 PROTECT-3
Q208-210 DTC144ES SW-1-3
D208-210 1SS119 STOPPER-1-3
Q308 JC501 ABL
SEPARATION
D205 1SS119 SOUND MUTE
Q305 2SC2785 VIDEO BUFFER
Q306 JC501 Y AMP
Q309 2SK107-2 SHARP CTL
VIDEO AMP
W NOISE INVERT
LIMIT
NOISE INVERT
AFT DET
IC102
VIFT
L107 VIFT
0.85Vp-p(V)
2.2Vp-p(H)
2.3Vp-p(H)
0.26 Vp-p
6.8Vp-p(H)
Q307 JA101 CHROMA AMP
IC301 μPC1365C CHROMA
ACC DET
ACC AMP
COLOR CONT
CONTRAST CONT
PICTURE CONT
VIDEO AMP
BRT CONT
PEDESTAL CLAMP
POWER
BURST GATE
KILLER AND ID DET
APC DET
F.F
PAL SW
VCO
R-Y DEMOD
B-Y DEMOD
G-Y MATRIX
R.G.B MATRIX
1H DELAY
DL302
PHASE
SUB COL
SUB BRT
SMB
APC
Q302 IT261 VIDEO SW-2
Q303 JA101 VIDEO DRIVE
Q304 JA101 SYNC AMP
D304 1SS119 BLK
D303 1SS119 V BLK
Q314,315 JC501 CHROMA AMP-1,2
0.18Vp-p(H)
0.75Vp-p(H)
2.6Vp-p(H)
2Vp-p(H)
2.3Vp-p(H)
3Vp-p(H)
0.23Vp-p(4.43MHz)
0.3Vp-p(H)
2.3Vp-p(H)
0.19Vp-p(H)
0.32Vp-p(H)
AS AGC
BLK-P
ABL
S/M
BRT
SHARP
HOLD 2
HOLD 1
V HOLD 2
V HOLD 1
+12V
VIDEO
SYNC
V BLK
HP
S901 POWER
ACIN
F651
T651 LFT
T652
R651 2.7M (1/2W)
F (LFT)
J1 (AF IN/OU
J901
J902
EXT SPEAKER
J904 AUDIO REC OUT
J903 AUDIO VIDEO LINE IN
VIDEO IN
VIDEO SW
R OUT
L OUT
J951 HEADPHONE JACK
J2 (HEAD PHONE JACK)

SCHEMATIC DIAGRAM (KV2056EC only)


V [TELETEXT]
V-9
-30V
14V
5.5V
STNBY
E
E
C
F-7
Q4 2SD795A
12V REG
IC8,9 μPD2114LC
RAM
IC12 74LS02N
NOR
R21 470 (1W)
C47 47 16V
D2
R20 10k
Q3
Q3 2SC2785
STAND BY
Q5 2SD795A
5V REG
D2 RD13E-B2
12V ZENER
D3 RD5.6E-B3
5V ZENER
Q5
R22 330(1/2W)
C48 330 6.3V
D3
C27 0.1 100V
C28 0.1 100V
C36 0.1 100V
IC8
IC9
IC12
R42 4.7
Q1
D1
C41 220 6.3V
Q1 2SD789
BACK UP
D1 1S1555
BACK UP
IC7 74LS83AN
FULL ADDER
IC1 SAA5040B
TAC
IC3 SAA5020
TIC
IC7
C26 0.1 100V
C25 0.1 100V
C24 0.1 100V
R29 1k
Q2 2SC2785
SUPERIMPOSE
R35 39k
R36 470
R37 4.7k
Q2
V-4
PIC
BRT
E
BLK
A
A-16
④ 5.5Vp-p(V)
㊳ 7.1Vp-p(H) f=7.14MHz
V-1
DLIM
DATA
E
PIO
R1 470
R2 470
R3 470
IC1
IC5
IC6
E
M-12
IC2 SAA5030
VIP
IC5,6 74LS161AN
BINARY COUNTER
⑨ 0.48Vp-p(V)
㊸ 3.6Vp-p(H)
C8 0.001
C9 0.001
C1 0.1 100V
R41 5.6k
C40 27p
C19 0.1 100V
IC11 74LS32N
OR
IC4 SAA5050
TROM
IC4
⑩ 0.48Vp-p(H)
㊹ 3.8Vp-p(H)
SUPER IMPOSE
BLANKING
Y
③ 1.8Vp-p(V)
L1 10μH
C5 68p
C4 0.01
⑤ 0.34Vp-p(H)
㊴ 3.2Vp-p(H)
C2 10 16V
C3 0.1 100V
R4 100k
CV1 5~30p
X1 6MHz
C6 10 16V
C7 1/50V
R5 1k
R7 6.8k
R6 6.8k
R39 1.5k
R14 6.8k
IC3
IC2
V-2
E
VIDEO
C39 1/50V
D
A-14
SYNC OUT
VIDEO IN
DATA
F2
FLR
FS
AHS
F6
GLR
HIE
TLC
CRS
TRS
LOSE
C50 0.001
R11 1.2k
R12 1.2k
R13 1.2k
C10 0.001
C11 330p
C12 47p
C13 0.001
R8 680
L2
C14 0.1 100V
R9 1.5k
RV1 10k
FIELD SYNC
R10 33k
C15 3300p 100V
C18 0.1 10V
C17 220 16V
C16 1 50V
C20 0.1 100V
② 0.9Vp-p(H)
① 2.8Vp-p(H)
⑦ 0.44Vp-p(H)
㊷ 1Vp-p(H) f=5.88MHz
⑥ 0.46Vp-p(H)
㊶ 3.7Vp-p(H)
⑧ 1.9Vp-p(H)
㊺ 3.6Vp-p(H)
⑪ 4.4Vp-p(H)
⑫ 3.9Vp-p(H)
㊻ 3.8Vp-p(V)
⑬ 3.9Vp-p(H)
㊼ 3.8Vp-p(H) f=9.09MHz
⑭ 3.9Vp-p(H)
㊽ 3.7Vp-p(H)
⑰ 3.8Vp-p(H)
(51) 4Vp-p(H)
⑯ 2.0Vp-p(H)
(50) 4Vp-p(H)
CP1
R28 2.2k
R27 2.2k
R26 2.2k
R31 2.2k
R32 2.2k
⑮ 9.5Vp-p(H)
㊾ 4Vp-p(H)
25μsec
C45 0.1 100V
C52 220 16V
C23 0.1 100V
IC10 μPC1387C
TEXT INTERFACE
IC10
⑱ 2.5Vp-p(H)
(52) 4Vp-p(H)
⑲ 10Vp-p(H)
(53) 4Vp-p(H)
⑳ 1.0Vp-p(H)
(54) 4Vp-p(H)
C46 0.047
RV2 10k-B
CONTROL ADJ
V-5
E
R
G
B
B
A-18

(KV2056EC only)

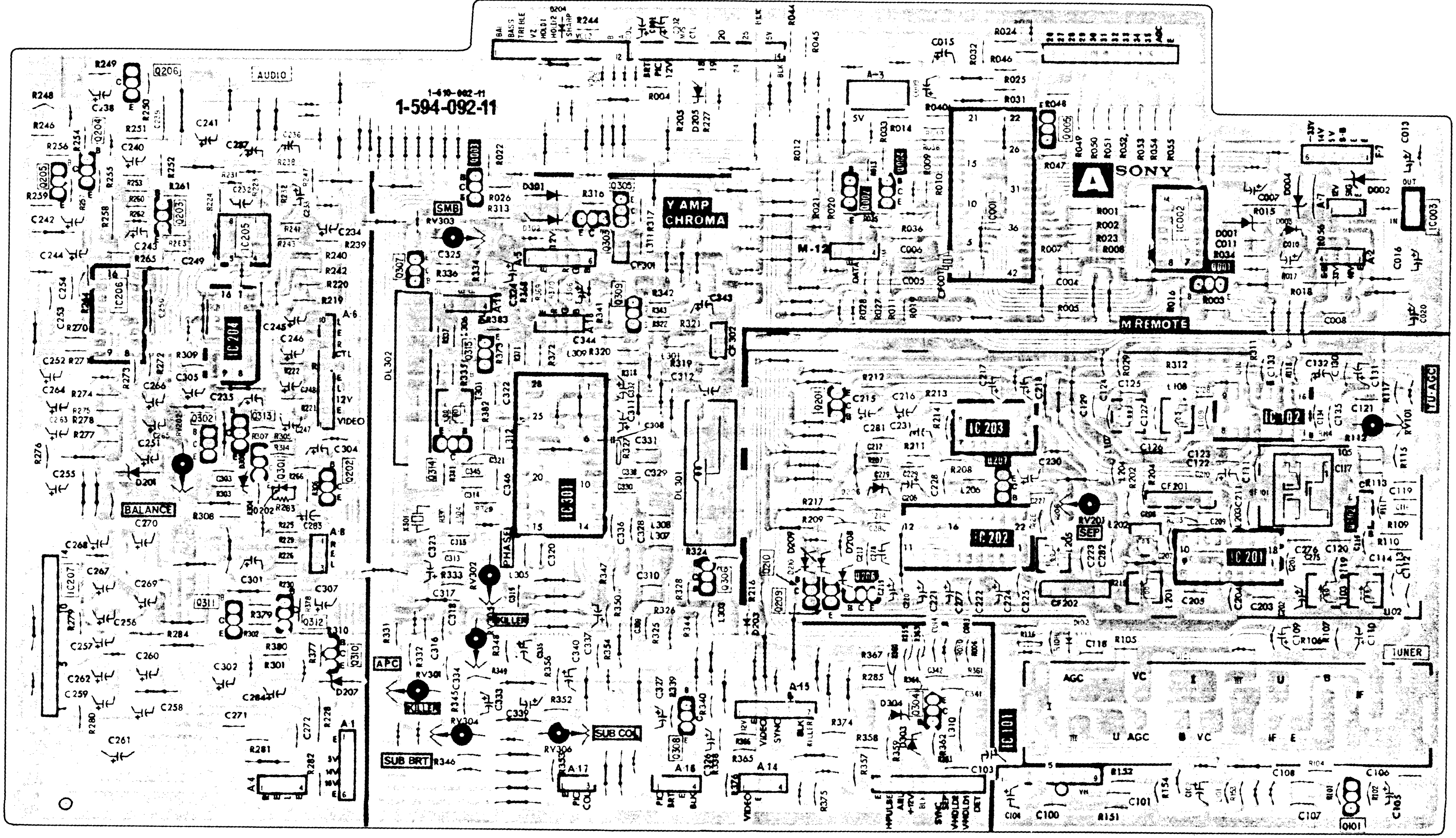


IC12
RV2
R51
R52
R32
R26
R28
R27
R38
C45
IC10
C46
C40
BLK
R36
R41
C52
V-7
V-1
V-6
V-5
C36
SSK-DCVO
IC4
C61
C23
IC11
R37
SUPER
SYNC
BLK
C19
R35
Q1
R42
D1
C41
Q2
V-8
C20
IC3
SONY
L1
R14
R11
C50
X-1
C4
C5
C6
C3
C1
R4
R6
R7
C7
R5
C44
RV1
C18
R10
IC9
IC8
IC7
IC5
IC6
C35
C29
C30
C34
C33
C31
C32
C26
C25
C24
C27
IC2
C2
C39
C12
C13
C10
C11
L2
C14
R43
R3
R2
R1
C8
C9
IC1
R22
R29
C28
R21
Q4
C47
D2
D3
C43
Q5
Q3
R20
V-9
V-2
1-607-202-12

Q, IC	D	ADJ
IC12 IC10		RV2
IC11		
IC4 1		
2	1	
IC3		
IC9 IC7		
IC8 IC5		RV1
IC6		
IC2		
IC1		
	2	
4		
5,3	3	
Q, IC	D	ADJ

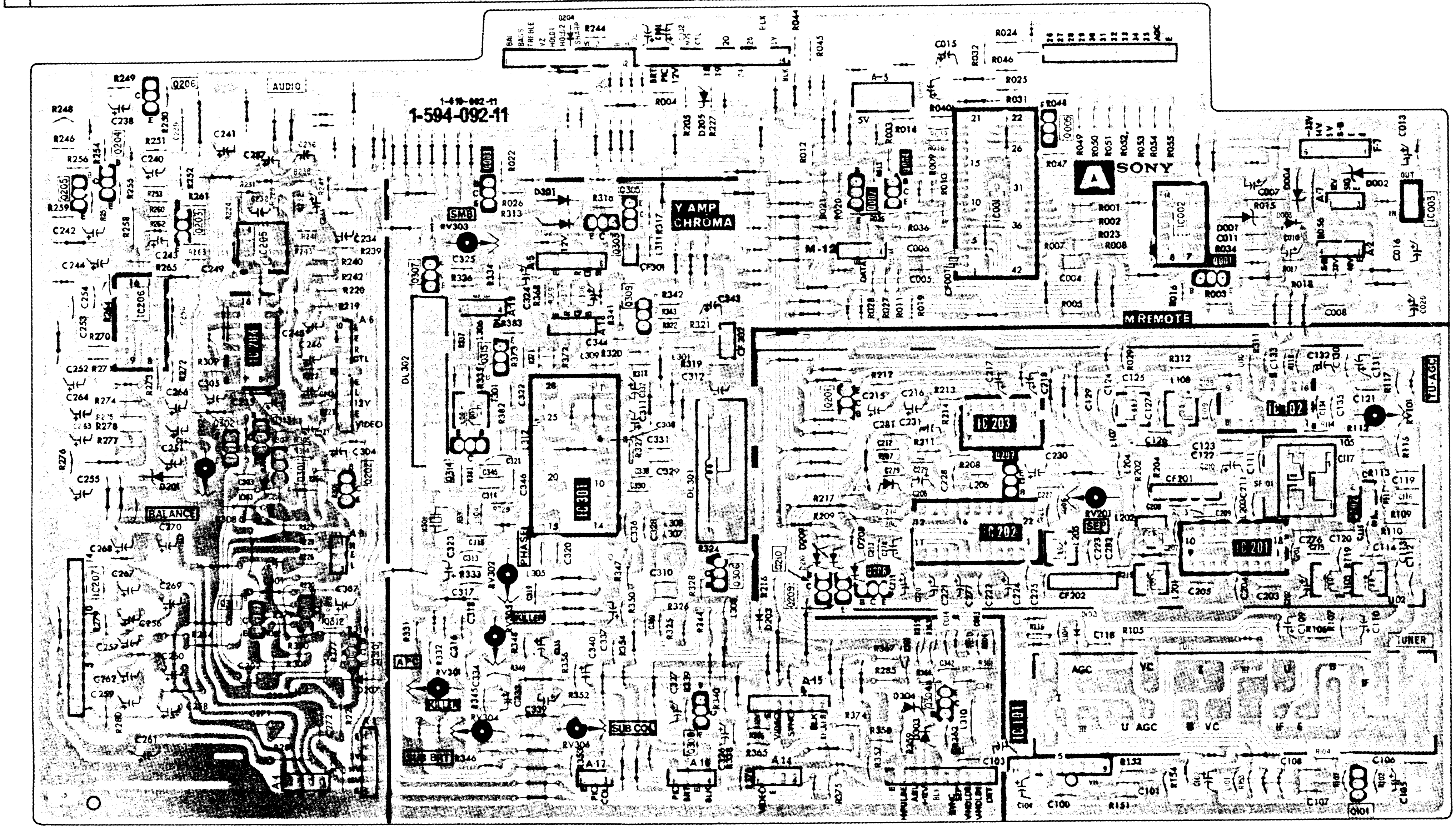
– A Board – (KV2052ET only)

Q·IC	205, 204, 206, IC206, 203, IC207, IC205, IC204, 302, 313, 301, 311, 312, 202, 310, 307, 003, 314, 315, 303, 305, IC301, 309, 306, 308, 201, 002, 210, 209, 208, IC001, IC203, 207, IC202, 304, 005, IC101, IC002, 001, IC102, IC201, 102, IC003, 101
D	201, 306, 202, 207, 301, 302, 204, 205, 203, 210, 209, 208, 206, 304, 303, 001, 003, 004, 002
ADJ	RV202, RV303, RV301, RV304, RV305, RV302, RV306, RV201, RV101


1-594-092-11
1-610-062-11
AUDIO
SMB
Y AMP
CHROMA
A
SONY
M-12
M REMOTE
BALANCE
PHASE
KILLER
APC
SUB BRT
SUB COL
SEP
TU-AGC
TUNER
IC001
IC002
IC003
IC101
IC102
IC201
IC202
IC203
IC204
IC205
IC206
IC207
IC301
DL301
DL302
RV101
RV201
RV202
RV301
RV302
RV303
RV304
RV306
A-1
A-3
A-4
A-6
A-8
A-14
A-15
A-16
A-17
AGC
VC
U AGC
IF
5V
12V
VIDEO
SYNC

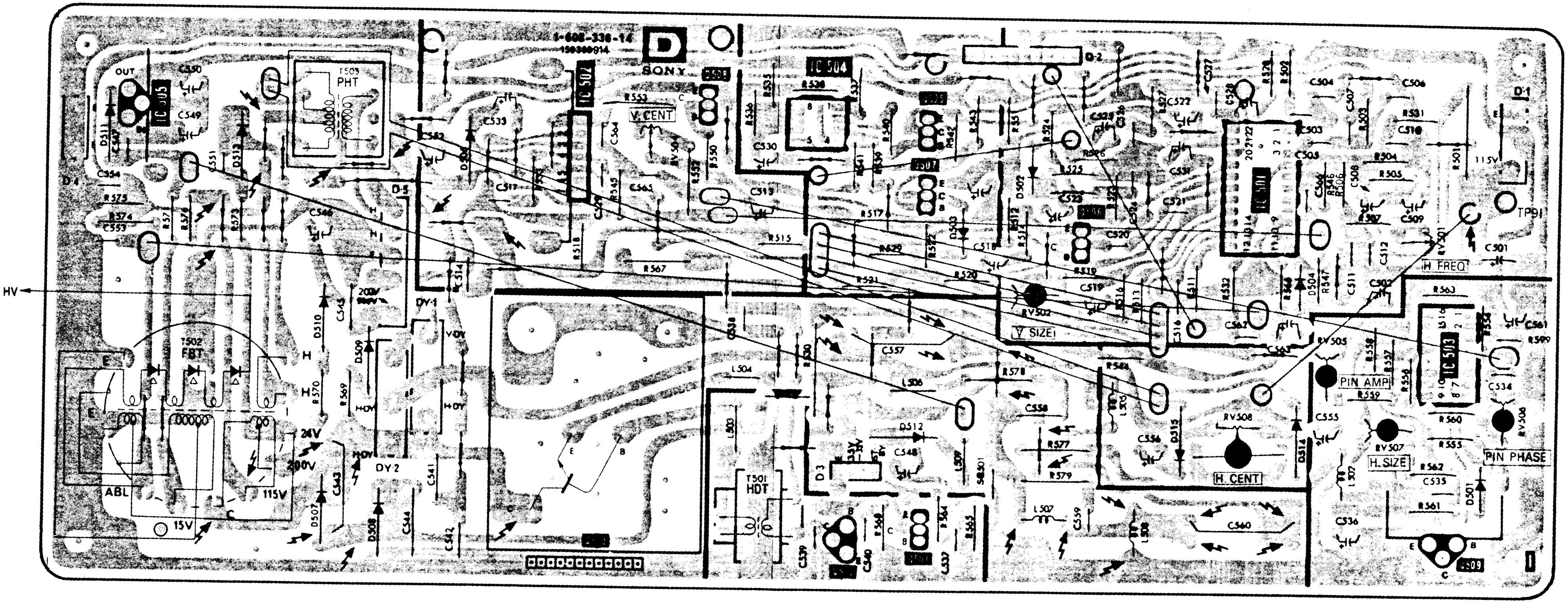
– A Board –

Q · IC	205, IC207, 204, IC206, 206, 203, IC205, IC204, 302, 313, 301, 311, 312, 202, 310, 307, 314, 003, 315, IC301, 303, 305, 309, 308, 306, 210, 209, 208, 201, 002, 004, 304, IC202, IC001, IC203, 207, 005, IC101, IC002, 001, IC201, IC102, 102, 101, IC003
D	201, 306, 207, 301, 302, 204, 205, 203, 210, 209, 208, 206, 304, 303, 102, 001, 003, 004, 002
ADJ	RV202, RV303, RV301, RV304, RV305, RV302, RV306, RV201, RV101


1-594-092-11
A SONY
AUDIO
Y AMP CHROMA
SMB
M REMOTE
BALANCE
PHASE
KILLER
APC
SUB BRT
SUB COL
SEP
TU-AGC
TUNER
IC001
IC002
IC003
IC101
IC102
IC201
IC202
IC203
IC204
IC205
IC206
IC207
IC301
DL301
DL302
CF201
CF202
CF301
RV101
RV201
RV301
RV302
RV303
RV304
RV306
AGC
VC
IF
12V
5V
VIDEO
Q101
Q001

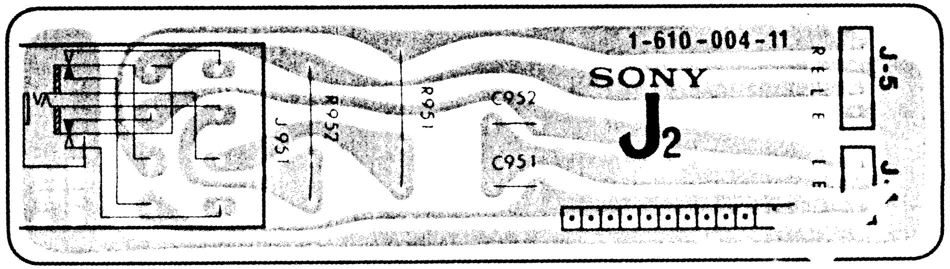
– D BOARD –

Q·IC	IC505	IC502	503	502	501	IC501	IC503	509					
D	511	513	510	507	509	508	506	512	502	515	504	514	501
ADJ	RV504	RV502	RV508	RV505	RV507	RV501	RV506	TP91					

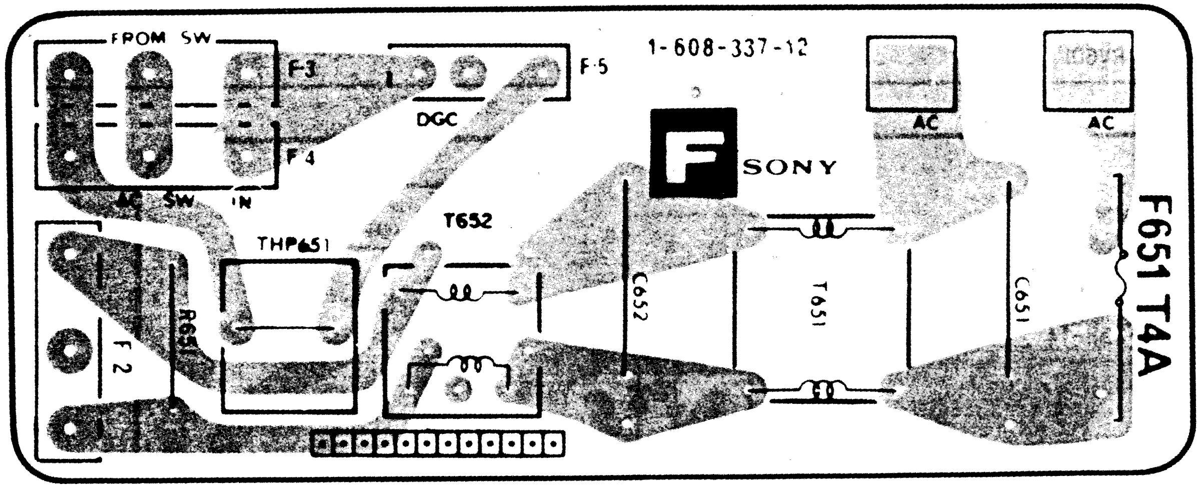


1-608-336-14
SONY
D
HV
IC505
OUT
C550
C549
D311
C547
C554
D4
R575
R574
C553
C551
D512
T503
PHT
C552
D5
R572
C546
IC502
C533
C517
R553
V. CENT
RV504
C564
R545
C565
R518
DY1
R514
C545
D510
D509
R569
R570
H
T502
FBT
E
ABL
15V
24V
200V
115V
D507
D508
DY2
C543
C541
C542
C544
IC504
R538
R536
R535
C530
R550
R541
R539
R517
R515
R529
R521
R567
C538
L504
L503
T501
HDT
D3
C548
D512
L506
C557
C539
C540
R566
R564
R565
C537
D502
D503
C518
R512
R520
C519
RV502
V SIZE
R578
C558
R577
R579
L507
L508
C559
C560
Q2
C528
C526
R524
R525
C523
C522
C521
C520
C531
R519
R516
R513
R511
C516
R532
R546
D504
R547
C511
C562
C563
R544
D515
C556
RV508
H. CENT
D514
IC501
C504
C506
C503
C505
C507
R503
C508
R504
R505
R506
R507
C509
R531
C510
R501
115V
D1
TP91
C501
C512
RV501
H. FREQ
C502
R563
IC503
C561
R599
RV505
PIN AMP
R558
R557
R559
R556
C555
RV507
H. SIZE
R562
C535
R560
R555
R561
C534
RV506
PIN PHASE
D501
C536
L502

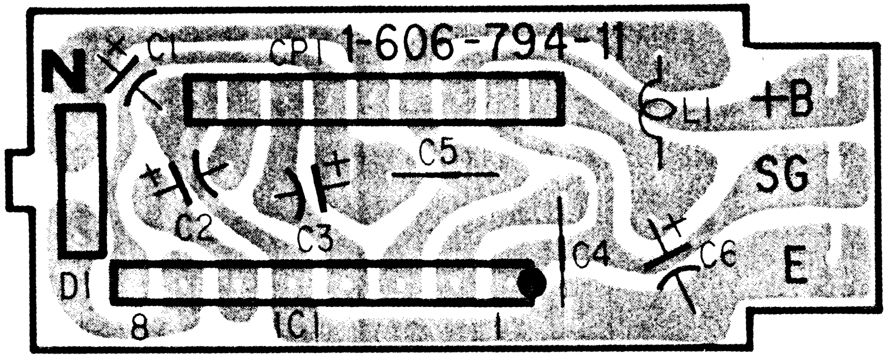
– J2 BOARD –


1-610-004-11
SONY
J2
J951
R952
R951
C952
C951
J-5
J-1
R
E
L
E
E
E

– F BOARD –

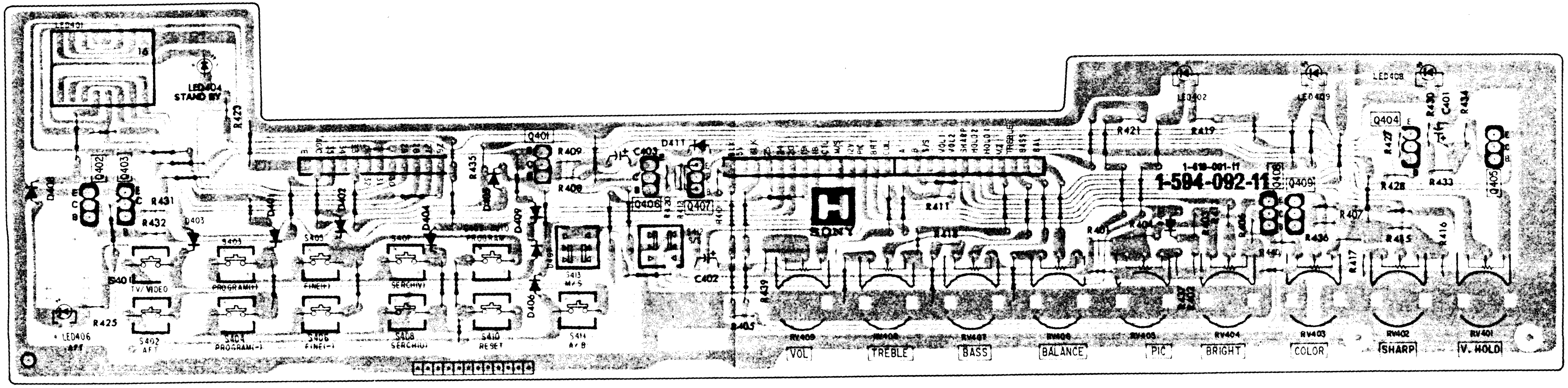

FROM SW
F3
F4
F5
DGC
1-608-337-12
F
SONY
AC
AC
AC SW
IN
THP651
T652
R651
F 2
C652
T651
C651
F651 T4A

– N BOARD –

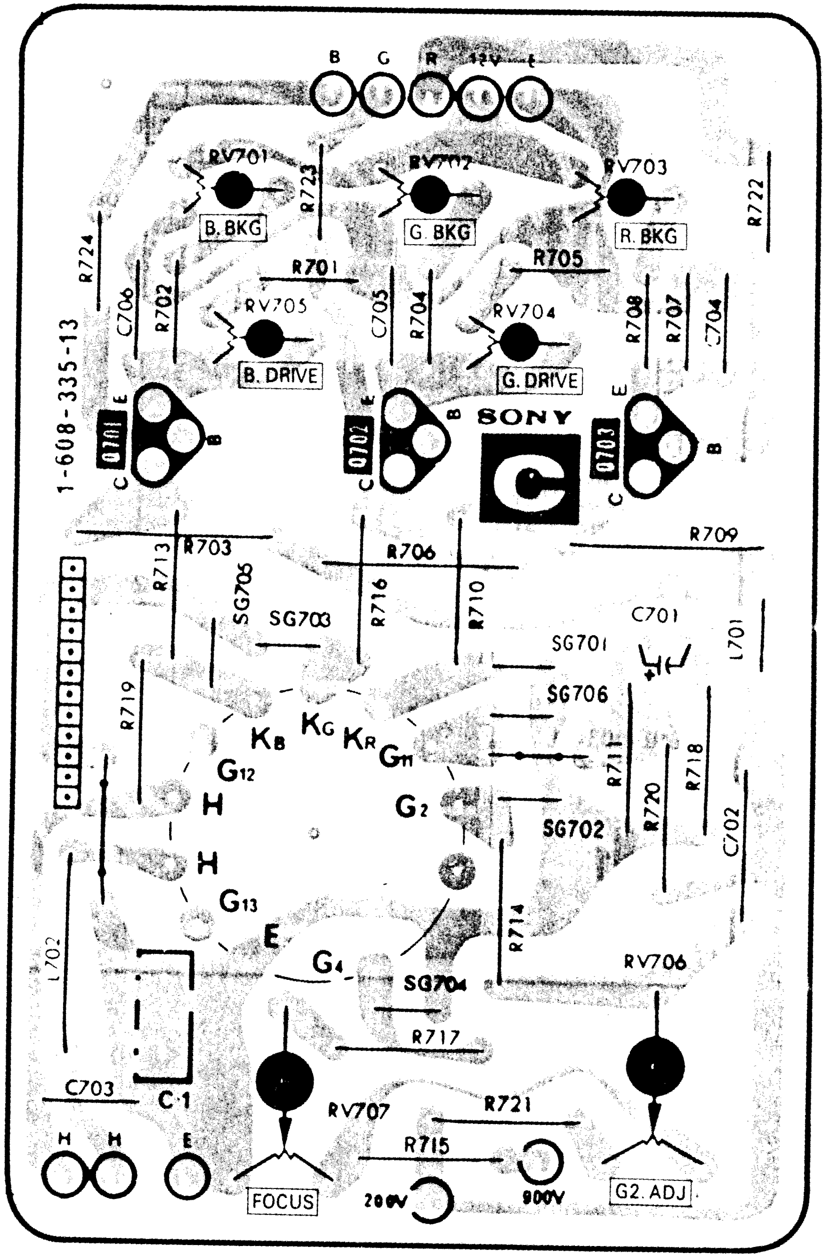

N
C1
CP1
1-606-794-11
L1
+B
SG
E
C5
C2
C3
C4
C6
D1
8
IC1
1

– H BOARD –

Q,IC	402, 403 401 408, 409 404 405	Q,IC
D	408 LED401 LED406 LED404 403 401 402 404 405 409 407 406 411 LED402 410 LED409 LED408	D

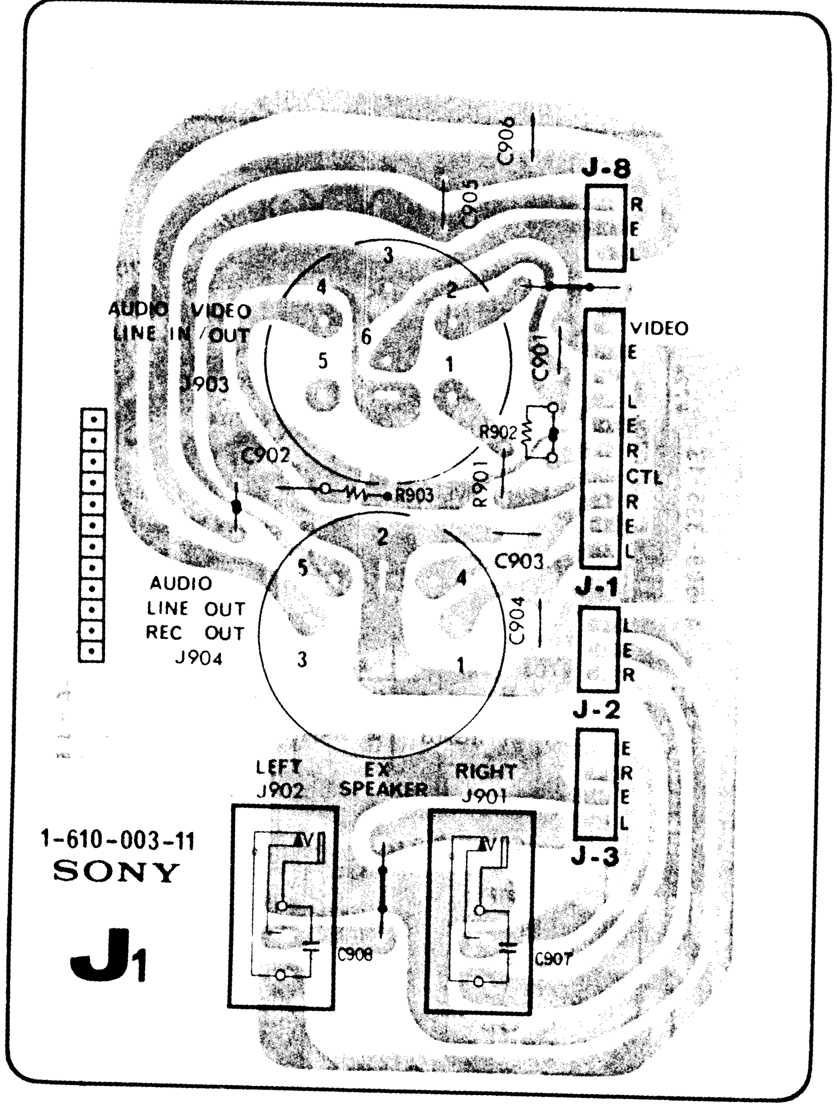

LED401
LED404 STAND BY
R423
Q402
Q403
D408
R431
R432
D403
D401
D402
D404
D405
D409
D406
R435
Q401
R409
R408
C403
D411
Q406
Q407
C402
R439
R405
H
SONY
1-594-092-11
R411
R421
R419
LED402
LED409
LED408
Q404
R430
C401
R434
Q405
Q408
Q409
R427
R428
R433
R407
R436
R415
R416
R417
R401
S401 TV/VIDEO
S402 AFT
S403 PROGRAM(+)
S404 PROGRAM(−)
S405 FINE(+)
S406 FINE(−)
S407 SERCH(+)
S408 SERCH(−)
S409 PROGRAM
S410 RESET
S413 M/S
S414 A/B
R425
LED406 AFT
RV409 VOL
RV408 TREBLE
RV407 BASS
RV406 BALANCE
RV405 PIC
RV404 BRIGHT
RV403 COLOR
RV402 SHARP
RV401 V. HOLD

— C BOARD —

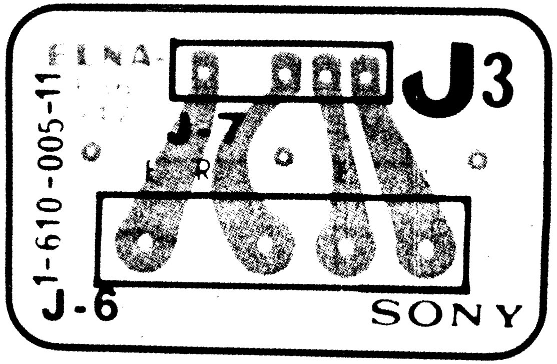


B
G
R
12V
E
RV701
B. BKG
R723
RV702
G. BKG
RV703
R. BKG
R722
R724
R701
R705
C706
R702
RV705
B. DRIVE
C705
R704
RV704
G. DRIVE
R708
R707
C704
1-608-335-13
Q701
Q702
Q703
E
B
C
SONY
C
R703
R706
R709
R713
SG705
SG703
R716
R710
C701
L701
SG701
SG706
R719
KB
KG
KR
G11
G12
H
G2
R711
R720
R718
SG702
C702
H
G13
E
G4
R714
SG704
RV706
L702
R717
C703
C-1
RV707
R721
R715
H
H
E
FOCUS
200V
900V
G2. ADJ

— J1 BOARD —



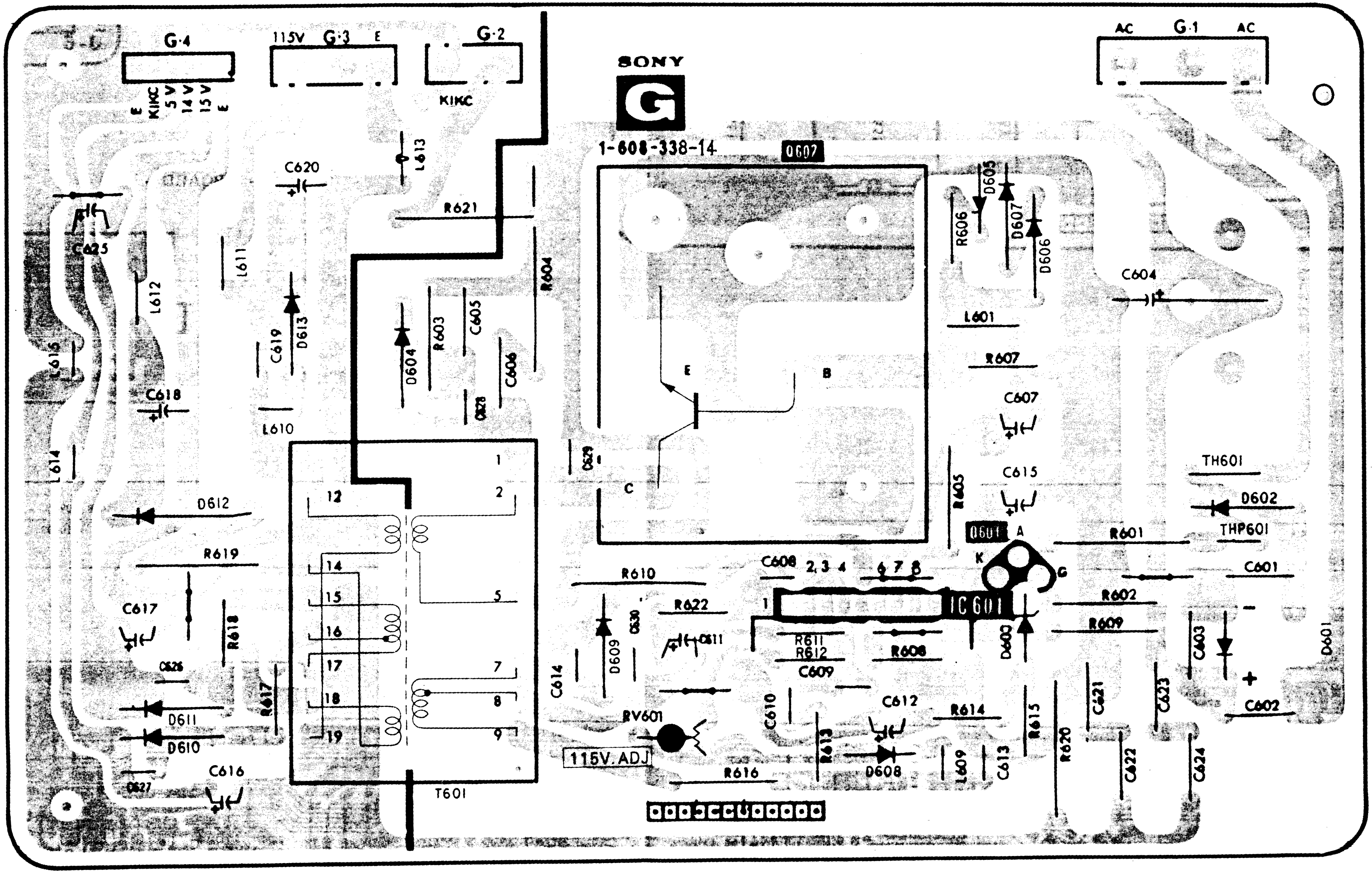
C906
C905
J-8
R
E
L
3
4
2
AUDIO VIDEO
LINE IN / OUT
6
5
1
J903
VIDEO
E
C901
L
E
R
CTL
R
E
L
R902
C902
R903
R901
2
C903
5
4
AUDIO
LINE OUT
REC OUT
J904
C904
3
1
J-1
L
E
R
J-2
E
R
E
L
J-3
LEFT
J902
EX
SPEAKER
RIGHT
J901
1-610-003-11
SONY
J1
C908
C907



1-610-005-11
J3
J-7
L
R
E
J-6
SONY

— J3 BOARD —

IC, Q	602 IC601 601	IC, Q
D	612 611 610 613 604 609 608 605,607,606 603 602 601	D
ADJ	RV601	ADJ

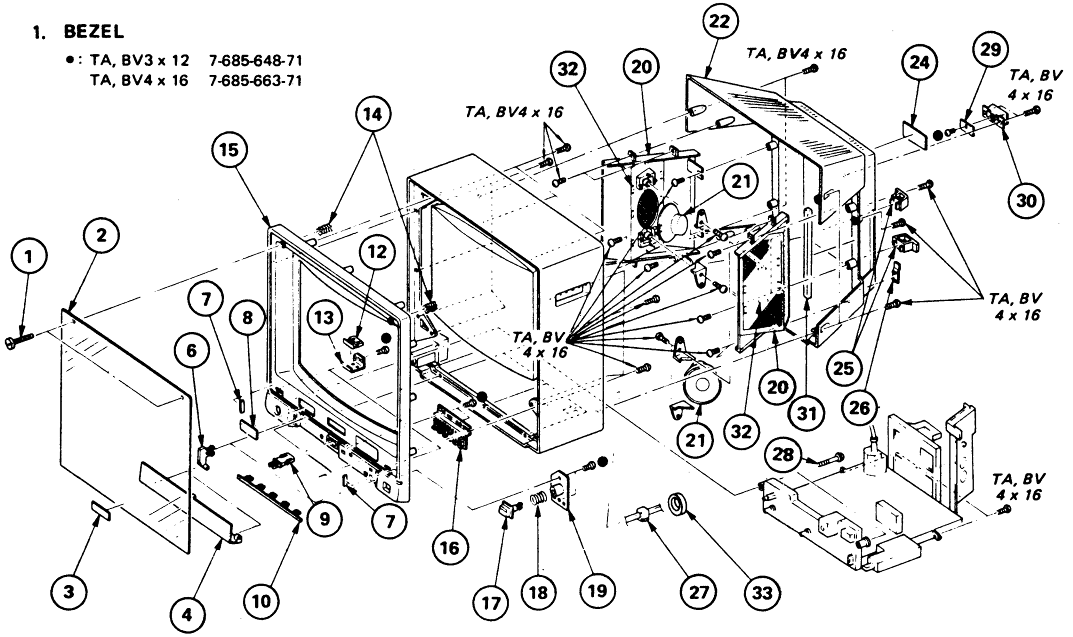

G·4
E
KIKC
5V
14V
15V
E
115V
G·3
E
G·2
KIKC
SONY
G
1-608-338-14
Q607
AC
G·1
AC
C620
L613
R621
C625
L611
L612
R604
C619
D613
R603
C605
D604
C606
C628
L615
C618
L610
L614
E
B
C
C629
R606
D605
D607
D606
C604
L601
R607
C607
C615
R605
TH601
D602
THP601
Q601
A
K
G
R601
C601
1
2
12
14
15
16
17
18
19
5
7
8
9
T601
D612
R619
C617
R618
C626
R617
D611
D610
C627
C616
R610
C608
2,3 4
6 7 8
1
IC601
R602
R609
R622
C630
C611
D609
C614
R611
R612
R608
C609
D603
C603
D601
+
C602
RV601
115V.ADJ
C610
R613
C612
R614
D608
R615
L609
C613
R620
C621
C622
C623
C624
R616

EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

1. BEZEL

●: TA, BV3 x 12   7-685-648-71
TA, BV4 x 16   7-685-663-71



22
TA, BV4 x 16
24
29
TA, BV
4 x 16
32
20
14
TA, BV4 x 16
15
21
30
2
12
1
7
8
13
TA, BV
4 x 16
TA, BV
4 x 16
6
25
20
31
26
21
32
28
TA, BV
4 x 16
9
7
16
3
10
4
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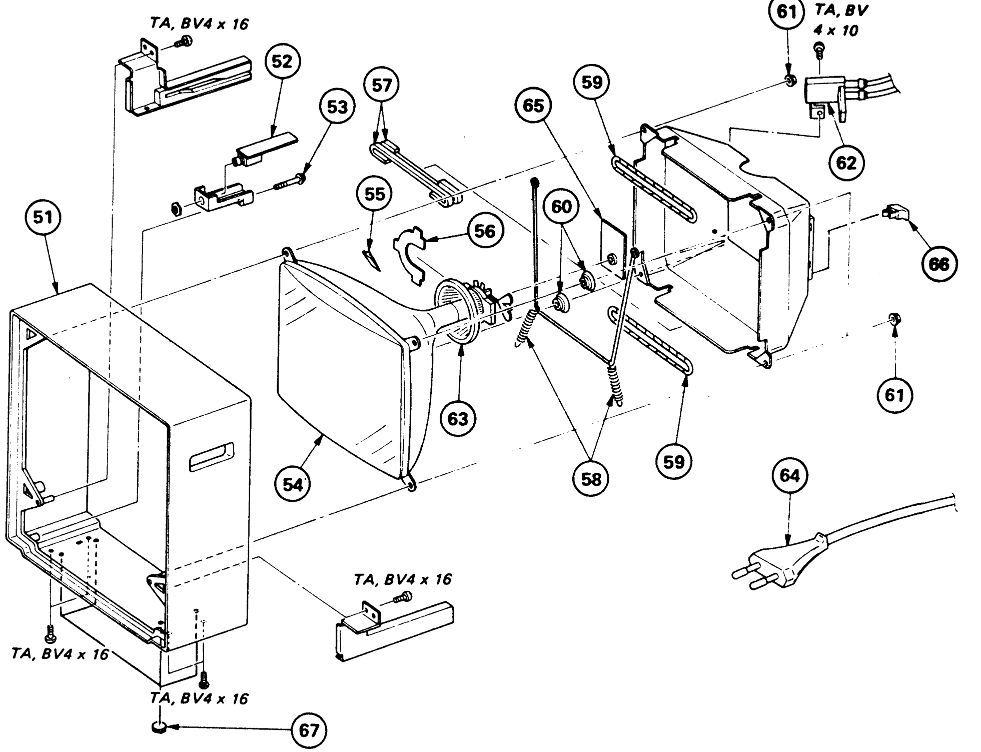
18
19
27
33

2. CABINET

●: TA, BV3 x 8   7-685-646-71
TA, BV4 x 10   7-685-660-71
TA, BV4 x 16   7-685-663-71



61
TA, BV
4 x 10
TA, BV4 x 16
52
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TA, BV4 x 16
TA, BV4 x 16
TA, BV4 x 16
67

No.	Part No.	Description	Remark
1	4-336-851-11	SCREW, ORNAMENTAL	
2	4-366-806-00	FILTER, GLASS	
3	X-3701-084-0	EMBLEM (LARGE) ASSY, SONY	
4	4-362-225-11	DOOR, CONTROL	
6	4-362-203-00	SHAFT, DOOR	
7	4-341-961-00	SHEET (S)	
8	♠:4-362-289-00	PLATE, ORNAMENTAL, INDICATOR	
9	4-352-034-00	CATCHER, PUSH	
10	♠:4-362-218-00	STRIP, ORNAMENTAL	
12	4-336-808-00	PROTECTOR, FILTER	
13	♠:4-362-201-00	HOLDER, FILTER	
14	4-357-414-00	NUT (M4X20)	
15	X-4362-210-2	BEZEL ASSY	4 - 14
16	4-362-221-11	BUTTON, MULTI	
17	X-4362-201-0	BUTTON ASSY, POWER	

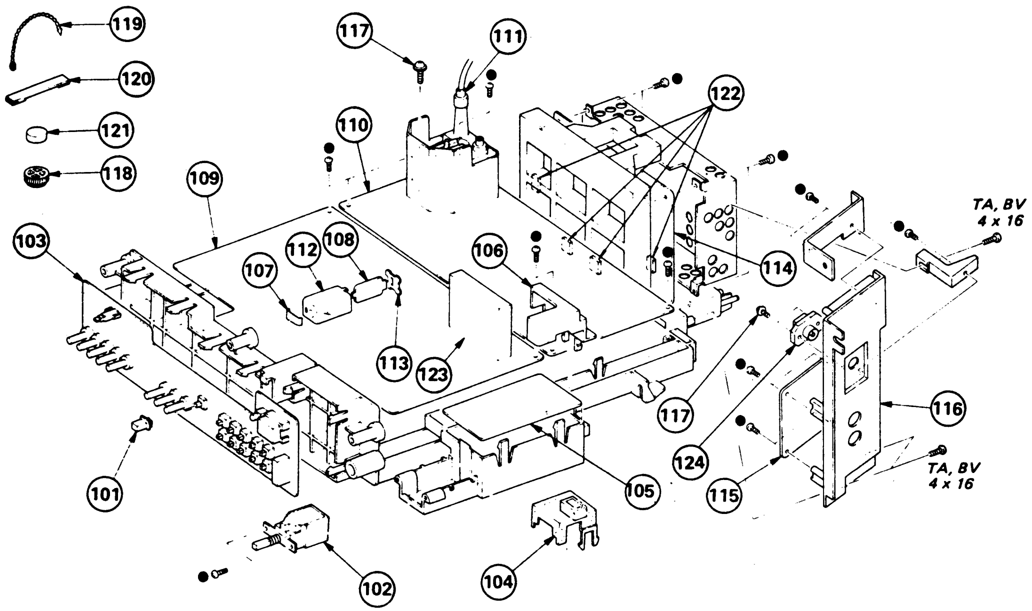
No.	Part No.	Description	Remark
18	4-362-278-00	SPRING, COMPRESSION	
19	♠:4-362-206-00	HOLDER, POWER BUTTON	
20	X-4362-203-2	PLATE ASSY, BAFFLE, SPEAKER	
21	1-503-194-00	SPEAKER	
22	4-362-238-11	COVER, BACK	
24	♠:4-364-503-00	LABEL, MODEL NUMBER	
25	4-316-003-00	HOLDER, CORD	
26	4-329-127-00	CLAMP, CORD	
27	⚠.4-022-115-01	**HOLDER, AC CORD**	
28	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
29	♠:1-610-005-00	J3 BOARD	
30	4-357-437-00	COVER, TERMINAL, SPEAKER	
31	4-362-283-00	CUSHION	
32	4-858-753-00	SHEET, DAMPER	
33	1-543-179-00	RING, CORE	

No.	Part No.	Description	Remark
51	X-4362-202-3	CABINET ASSY	66
52	♠:1-610-004-00	J2 BOARD	
53	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
54	⚠.8-738-704-05	CRT 520SB22	
55	3-703-003-00	SPACER, DY	
56	1-452-146-00	MAGNET, BMC	
57	4-312-539-00	CUSHION (A), BEZEL	
58	4-303-774-XX	SPRING	
59	**⚠.1-426-087-61**	**COIL, DEGAUSSING**	

No.	Part No.	Description	Remark
60	4-348-567-00	WASHER, CRT POSITION	
61	4-306-034-00	FLANGE NUT, (B) 5MM	
62	⚠.1-228-714-21	**RESISTOR ASSY, HIGH-VOLTAGE**	
63	⚠.1-451-204-31	**DEFLECTION YOKE**	
64	⚠.1-551-270-31	**CORD, POWER**	
65	♠:A-1330-451-A	C BOARD, COMPLETE	
66	♠:3-659-681-00	HOLDER, PC BOARD	
67	4-809-913-XX	FOOT, F	

4-3. CHASSIS

● : TA, BV3 x 12 7-685-648-71
TA, BV4 x 16 7-685-663-71



No.	Part No.	Description	Remark
101	4-362-211-00	PUSH BUTTON	
102	⚠.1-553-225-12	SWITCH, PUSH	
103	♠:1-610-001-00	H BOARD	
104	♠:4-362-248-00	COVER, POWER SWITCH	
105	♠:1-608-337-00	F BOARD	
106	♠:4-362-247-00	COVER, AC TERMINAL	
107	♠:4-333-624-00	FILM (N), SPECIAL	
108	♠:1-606-794-00	N BOARD	
109	♠:A-1295-769-A	A BOARD, COMPLETE	
110	♠:A-1345-385-A	D BOARD, COMPLETE	
111	⚠.1-439-303-00	TRANSFORMER ASSY, FLYBACK	
112	♠:4-342-117-00	CASE, SHIELD (MAIN), R	
113	♠:4-342-118-00	LID, SHIELD CASE, R	
114	♠:A-1245-189-A	G BOARD, COMPLETE	
115	♠:1-610-003-00	J1 BOARD	
116	4-362-242-01	PANEL, CONNECTOR	
117	4-304-496-00	HEAD, WASHER, TAPPING SCREW	
118	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
119	4-308-870-00	CLIP, LEAD WIRE	
120	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
121	1-452-032-00	MAGNET, DISK; 10MM ø	
122	4-858-753-00	SHEET, DAMPER	
123	⚠.1-463-421-21	TUNER, ET (BT-883)	
124	⚠.1-536-797-11	TERMINAL BOARD ASSY, ANTENNA	

F **G**

ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

Ref.No	Part No.	Description				Remark
	♠:1-608-337-00	F BOARD *******				
		CAPACITOR				
C651	⚠.1-117-121-11	PAPER	0.22MF	20%	250V	
C652	⚠.1-117-121-11	PAPER	0.22MF	20%	250V	
		CONNECTOR				
F2	♠:1-506-348-XX	3P PLUG (L)				
F3	♠:1-506-348-XX	3P PLUG (L)				
F4	♠:1-506-348-XX	3P PLUG (L)				
F5	♠:1-508-765-00	3P PLUG (M)				
		FUSE				
F651	⚠.1-532-350-11	FUSE, TIME-LAG 4A				
	1-533-149-00	HOLDER, FUSE, F651				
		RESISTOR				
R651	⚠.1-202-724-51	SOLID	2.7M	10%	1/2W	
		TRANSFORMER				
T651	⚠.1-421-352-11	TRANSFORMER, FERRITE				
T652	⚠.1-421-592-00	TRANSFORMER, FERRITE				
		THERMISTOR				
THP651	⚠.1-806-165-11	THERMISTOR (POSITIVE)				

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Ref.No	Part No.	Description				Remark
	♠:A-1245-189-A	G BOARD, COMPLETE *****************				
		CAPACITOR				
C601	1-161-964-00	CERAMIC	0.0047MF		250V	
C602	1-161-964-00	CERAMIC	0.0047MF		250V	
C603	1-161-964-00	CERAMIC	0.0047MF		250V	
C604	1-125-167-00	ELECT(BLOCK)	250MF		400V	
C605	1-102-050-00	CERAMIC	0.01MF		500V	
C606	1-129-706-00	FILM	0.0022MF	10%	630V	
C607	1-124-025-00	ELECT	100MF	20%	16V	
C609	1-102-959-00	CERAMIC	22PF	5%	50V	
C611	1-124-025-00	ELECT	100μF	20%	16V	
C612	1-123-353-00	ELECT	2.2MF	20%	50V	
C613	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C614	1-102-030-00	CERAMIC	330PF	10%	500V	
C615	1-123-323-00	ELECT	470MF	20%	16V	
C616	1-123-322-00	ELECT	330MF	20%	16V	
C617	1-123-333-00	ELECT	100MF	20%	25V	
C618	1-123-350-00	ELECT	2200MF	20%	35V	
C619	1-102-327-00	CERAMIC	330PF	15%	1.5KV	
C620	1-123-024-00	ELECT	33MF		160V	
C621	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C622	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C623	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C624	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C625	1-123-332-00	ELECT	47MF	20%	16V	
C626	1-102-030-00	CERAMIC	330PF	10%	500V	
C630	1-108-376-00	MYLAR	0.0082MF	10%	100V	
		DIODE				
D601	8-719-503-06	DIODE S3WB60Z				
D602	8-719-300-45	DIODE EM1Z				
D603	8-719-100-68	DIODE RD13E-B2				
D604	8-719-901-39	DIODE V06J				
D605	8-719-901-83	DIODE 1SS83				
D606	8-719-200-02	DIODE 10E2				
D607	8-719-200-02	DIODE 10E2				
D608	8-719-901-83	DIODE 1SS83				
D609	8-719-901-93	DIODE V19E				
D610	8-719-901-93	DIODE V19E				
D611	8-719-901-93	DIODE V19E				
D612	8-719-900-26	DIODE ERD29-08J				
D613	8-719-928-08	DIODE ERD28-08				
		CONNECTOR				
G1	♠:1-506-348-XX	3P PLUG (L)				
G3	♠:1-508-765-00	3P PLUG (M)				
G4	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				
		IC				
IC601	8-759-046-00	IC TDA4600				
	♠:4-356-301-00	HEAT SINK (D), IC601				
		COIL				
L601	1-408-225-00	MICRO INDUCTOR 3.3UH				
L609	1-408-415-00	MICRO INDUCTOR 33UH				
L610	1-425-613-00	COIL, AIR-CORE, QF TYPE				
L611	1-459-215-00	CORE COIL 120UH				
L612	1-459-215-00	CORE COIL 120UH				
L613	1-459-215-00	CORE COIL 120UH				
L614	1-459-407-00	COIL, FERRITE CHOKE 30UH				
		TRANSISTOR				
Q601	8-719-000-28	THYRISTOR CR02AM-8				
Q602	8-729-300-60	TRANSISTOR 2SC1413-SY				
	3-701-609-00	BUSHING (B), TR, Q602				
	♠:4-314-938-01	RETAINER (TO-3), TRANSISTOR, Q602				
	♠:4-329-407-00	LUG, GROUND, Q602				
	♠:4-336-010-00	HEAT SINK, Q602				
	♠:4-362-210-00	SHEET (TO-3), Q602				
		RESISTOR				
R601	1-206-604-00	METAL OXIDE	1K	5%	2W	F
R602	1-244-933-00	CARBON	330K	5%	1/2W	

Ref.No	Part No.	Description				Remark
R603	1-244-929-00	CARBON	220K	5%	1/2W	
R604	1-206-519-00	METAL OXIDE	22	5%	3W	F
R605	1-212-356-00	METAL OXIDE	0.47	5%	1W	F
	1-543-194-00	CORE, BEAD, R605				
R606	1-246-981-00	CARBON	4.7	5%	1/8W	F
R607	1-247-095-00	METAL	33	5%	1/4W	
R608	1-215-172-00	METAL	6.8K	5%	1/4W	
R609	1-244-931-00	CARBON	270K	5%	1/2W	
R610	1-215-811-00	METAL	220K		1W	
R611	1-215-154-00	METAL	1.2K	5%	1/4W	
R612	1-215-178-00	METAL	12K	5%	1/4W	
R613	1-215-176-00	METAL	10K	5%	1/4W	
R614	1-215-170-00	METAL	5.6K	5%	1/4W	
R615	1-215-160-00	METAL	2.2K	5%	1/4W	
R616	1-213-125-00	METAL OXIDE	33	5%	1W	F
R617	1-247-636-00	CARBON	0.47	5%	1/8W	F
R618	1-247-636-00	CARBON	0.47	5%	1/8W	F
R619	1-217-465-00	FUSIBLE	0.47	5%	1W	F
R620	1-247-289-00	CARBON	8.2M	5%	1W	
R622	1-215-140-00	METAL	330	5%	1/4W	

VARIABLE RESISTOR

RV601	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K

TRANSFORMER

T601	⚠.1-421-560-12	TRANSFORMER, FERRITE (SRT)

THERMISTOR

TH601	⚠.1-800-820-12	THERMISTOR, POWER
THP601	⚠.1-806-449-21	THERMISTOR (POSITIVE)

****

♠:A-1295-769-A A BOARD, COMPLETE
****

♠:1-555-706-00	CONNECTOR ASSY (2.5MM) 10P
♠:4-362-292-00	LID, UPPER, SHIELD CASE, VIF
♠:4-362-293-00	CASE (MAIN), SHIELD, VIF
♠:4-362-294-00	LID, BOTTOM, SHIELD CASE, VIF

CONNECTOR

Ref.No	Part No.	Description
A1	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
A2	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A3	♠:1-508-786-00	2P PLUG (M)
A4	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A5	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 6P
A6	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
A7	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A8	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A9	♠:1-508-784-00	1P PLUG
A14	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A15	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM PITCH)
A16	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A17	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)
A18	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A19	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)

CAPACITOR

Ref.No	Part No.	Description				Remark
C001	1-123-356-00	ELECT	10MF	20%	16V	
C002	1-123-356-00	ELECT	10MF	20%	16V	
C003	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C004	1-102-973-00	CERAMIC	100PF	5%	50V	
C005	1-102-959-00	CERAMIC	22PF	5%	50V	
C006	1-102-963-00	CERAMIC	33PF	5%	50V	
C007	1-123-356-00	ELECT	10MF	20%	50V	
C008	1-108-251-00	MYLAR	0.1MF	5%	50V	
C009	1-123-356-00	ELECT	10MF	20%	16V	
C010	1-123-356-00	ELECT	10MF	20%	50V	
C011	1-101-004-00	CERAMIC	0.01MF		50V	
C013	1-123-333-00	ELECT	100MF	20%	16V	
C014	1-102-114-00	CERAMIC	470PF	10%	50V	
C015	1-123-353-00	ELECT	2.2MF	20%	50V	
C016	1-123-333-00	ELECT	100MF	20%	16V	
C020	1-123-356-00	ELECT	10MF	20%	25V	
C100	1-110-175-00	MYLAR	0.1MF	10%	100V	
C101	1-110-175-00	MYLAR	0.1MF	10%	100V	
C102	1-123-356-00	ELECT	10MF	20%	25V	
C103	1-123-380-00	ELECT	1MF	20%	50V	
C104	1-123-380-00	ELECT	1MF	20%	50V	
C105	1-123-318-00	ELECT	33MF	20%	16V	
C106	1-102-963-00	CERAMIC	33PF	5%	50V	
C107	1-110-173-00	MYLAR	0.068MF	10%	100V	
C108	1-110-173-00	MYLAR	0.068MF	10%	100V	
C109	1-123-343-00	ELECT	33MF	20%	25V	
C110	1-123-380-00	ELECT	1MF	20%	50V	
C112	1-102-529-00	CERAMIC	100PF	5%	50V	
C113	1-102-530-00	CERAMIC	120PF	5%	50V	
C114	1-102-851-00	CERAMIC	15PF	5%	50V	
C115	1-102-523-00	CERAMIC	56PF	5%	50V	
C116	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C117	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C118	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C119	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C120	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C121	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C122	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C123	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C124	1-102-529-00	CERAMIC	100PF	5%	50V	
C125	1-102-518-00	CERAMIC	33PF	5%	50V	
C126	1-102-937-00	CERAMIC	4PF	0.25PF	50V	
C127	1-102-529-00	CERAMIC	100PF	5%	50V	
C128	1-102-518-00	CERAMIC	33PF	5%	50V	
C129	1-102-937-00	CERAMIC	4PF	0.25PF	50V	
C130	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C131	1-123-343-00	ELECT	33MF	20%	25V	
C132	1-123-379-00	ELECT	0.47MF	20%	50V	
C133	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C134	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C135	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C201	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C202	1-123-286-00	ELECT	0.33MF	20%	50V	
C203	1-101-004-00	CERAMIC	0.01MF		50V	
C204	1-101-361-00	CERAMIC	150PF	5%	50V	
C205	1-130-014-00	FILM	470PF	5%	50V	
C206	1-123-356-00	ELECT	10MF	20%	16V	
C207	1-102-525-00	CERAMIC	68PF	5%	50V	
C208	1-101-004-00	CERAMIC	0.01MF		50V	
C209	1-101-004-00	CERAMIC	0.01MF		50V	
C210	1-123-318-00	ELECT	33MF	20%	16V	
C211	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C212	1-108-371-00	MYLAR	0.0033MF	10%	100V	
C213	1-108-371-00	MYLAR	0.0033MF	10%	100V	
C214	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C215	1-123-356-00	ELECT	10MF	20%	16V	
C216	1-123-356-00	ELECT	10MF	20%	16V	
C217	1-123-318-00	ELECT	33MF	20%	16V	
C218	1-123-356-00	ELECT	10MF	20%	16V	
C219	1-123-306-00	ELECT	47MF	20%	10V	
C220	1-123-306-00	ELECT	47MF	20%	10V	
C221	1-123-332-00	ELECT	47MF	20%	16V	
C222	1-123-356-00	ELECT	10MF	20%	16V	
C223	1-130-014-00	FILM	470PF	5%	50V	
C224	1-101-004-00	CERAMIC	0.01MF		50V	
C225	1-101-004-00	CERAMIC	0.01MF		50V	
C226	1-102-513-00	CERAMIC	18PF	5%	50V	
C227	1-102-513-00	CERAMIC	18PF	5%	50V	
C228	1-108-570-00	MYLAR	0.0043MF	5%	50V	
C229	1-130-626-00	FILM	0.033MF	5%	50V	
C230	1-123-379-00	ELECT	0.47MF	20%	50V	
C231	1-123-379-00	ELECT	0.47MF	20%	50V	
C232	1-123-380-00	ELECT	1MF	20%	50V	
C233	1-123-380-00	ELECT	1MF	20%	50V	
C234	1-123-318-00	ELECT	33MF	20%	16V	
C235	1-123-318-00	ELECT	33MF	20%	16V	
C236	1-123-356-00	ELECT	10MF	20%	16V	
C237	1-123-356-00	ELECT	10MF	20%	16V	
C238	1-123-328-00	ELECT	4.7MF	20%	25V	
C239	1-108-393-00	MYLAR	0.22MF	10%	100V	
C240	1-123-379-00	ELECT	0.47MF	20%	50V	
C241	1-123-322-00	ELECT	330MF	20%	16V	
C242	1-123-354-00	ELECT	3.3MF	20%	50V	
C243	1-123-354-00	ELECT	3.3MF	20%	50V	
C244	1-123-332-00	ELECT	47MF	20%	16V	
C245	1-123-380-00	ELECT	1MF	20%	50V	
C246	1-123-380-00	ELECT	1MF	20%	50V	
C247	1-123-356-00	ELECT	10MF	20%	16V	
C248	1-123-356-00	ELECT	10MF	20%	16V	
C249	1-110-186-00	MYLAR	0.0047MF	10%	400V	
C250	1-110-176-00	MYLAR	0.12MF	10%	100V	
C251	1-123-332-00	ELECT	47MF	20%	16V	
C252	1-123-333-00	ELECT	100MF	20%	25V	
C253	1-110-176-81	MYLAR	0.12MF	10%	100V	
C254	1-110-186-00	MYLAR	0.0047MF	10%	400V	
C255	1-123-332-00	ELECT	47MF	20%	16V	
C256	1-123-306-00	ELECT	47MF	20%	6.3V	
C257	1-123-447-00	ELECT	0.22MF	20%	50V	
C258	1-123-447-00	ELECT	0.22MF	20%	50V	
C259	1-123-306-00	ELECT	47MF	20%	6.3V	
C260	1-123-321-00	ELECT	220MF	20%	16V	
C261	1-123-338-00	ELECT	2200MF	20%	25V	
C262	1-123-356-00	ELECT	10MF	20%	16V	
C263	1-123-356-00	ELECT	10MF	20%	16V	
C264	1-123-356-00	ELECT	10MF	20%	16V	
C265	1-123-356-00	ELECT	10MF	20%	16V	
C266	1-123-586-00	ELECT	0.1MF	20%	50V	
C267	1-123-307-00	ELECT	100MF	20%	10V	
C268	1-123-307-00	ELECT	100MF	20%	10V	
C269	1-123-311-00	ELECT	1000MF	20%	10V	
C270	1-123-311-00	ELECT	1000MF	20%	10V	
C271	1-110-175-00	MYLAR	0.1MF	10%	100V	
C272	1-110-175-00	MYLAR	0.1MF	10%	100V	
C275	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C276	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C277	1-101-004-00	CERAMIC	0.01MF		50V	
C278	1-123-379-00	ELECT	0.47MF	20%	50V	
C279	1-108-371-00	MYLAR	0.0033MF	10%	100V	
C280	1-108-371-00	MYLAR	0.0033MF	10%	100V	
C281	1-110-182-00	MYLAR	0.022MF	10%	250V	
C282	1-110-182-00	MYLAR	0.022MF	10%	250V	
C283	1-123-316-00	ELECT	10μF	20%	16V	
C284	1-123-356-00	ELECT	10MF	20%	25V	
C301	1-123-332-00	ELECT	47MF	20%	16V	
C302	1-123-297-00	ELECT	330MF	20%	6.3V	
C303	1-101-884-00	CERAMIC	56PF	5%	50V	
C304	1-123-318-00	ELECT	33MF	20%	16V	
C305	1-123-318-00	ELECT	33MF	20%	16V	
C306	1-123-379-00	ELECT	0.47MF	20%	50V	
C307	1-123-332-00	ELECT	47MF	20%	16V	
C308	1-102-959-00	CERAMIC	22PF	5%	50V	
C309	1-101-880-00	CERAMIC	47PF	5%	50V	
C310	1-102-678-00	CERAMIC	100PF	5%	50V	
C311	1-123-356-00	ELECT	10MF	20%	16V	
C312	1-123-343-00	ELECT	33MF	20%	25V	
C313	1-101-888-00	CERAMIC	68PF	5%	50V	
C314	1-102-953-00	CERAMIC	18PF	5%	50V	
C315	1-102-525-00	CERAMIC	68PF	5%	50V	
C316	1-110-171-00	MYLAR	0.047MF	10%	100V	
C317	1-123-379-00	ELECT	0.47MF	20%	50V	
C318	1-110-171-00	MYLAR	0.047MF	10%	100V	
C319	1-102-971-00	CERAMIC	82PF	5%	50V	
C320	1-102-973-00	CERAMIC	100PF	5%	50V	
C321	1-101-004-00	CERAMIC	0.01MF		50V	
C322	1-101-004-00	CERAMIC	0.01MF		50V	
C323	1-123-343-00	ELECT	33MF	20%	25V	

Ref.No	Part No.	Description				Remark
C324	1-123-343-00	ELECT	33MF	20%	25V	
C325	*1-101-004-00*	*CERAMIC*	*0.01MF*		50V	
C326	1-123-379-00	ELECT	0.47MF	20%	50V	
C327	1-123-354-00	ELECT	3.3MF	20%	50V	
C328	1-102-887-00	CERAMIC	47PF	5%	50V	
C329	1-102-889-00	CERAMIC	39PF	5%	50V	
C330	1-102-678-00	CERAMIC	100PF	5%	50V	
C331	1-102-850-00	CERAMIC	56PF	5%	50V	
C332	1-123-353-00	ELECT	2.2MF	20%	50V	
C333	1-131-371-00	TANTALUM	10MF	20%	16V	
C334	1-101-004-00	CERAMIC	0.01MF		50V	
C335	1-123-343-00	ELECT	33MF	20%	25V	
C336	1-110-175-00	MYLAR	0.1MF	10%	100V	
C337	1-123-380-00	ELECT	1MF	20%	50V	
C338	1-101-004-00	CERAMIC	0.01MF		50V	
C339	1-123-380-00	ELECT	1MF	20%	50V	
C340	1-123-380-00	ELECT	1MF	20%	50V	
C341	1-102-971-00	CERAMIC	82PF	5%	50V	
C342	1-110-190-00	MYLAR	0.01MF	10%	400V	
C343	1-123-380-00	ELECT	1MF	20%	50V	
C344	1-102-963-00	CERAMIC	33PF	5%	50V	
C345	1-101-884-00	CERAMIC	56PF	5%	50V	
C346	1-102-963-00	CERAMIC	33PF	5%	50V	

FILTER

Ref.No	Part No.	Description
CF001	1-527-790-00	OSCILLATOR, CERAMIC
CF201	1-527-840-00	FILTER, CERAMIC
CF202	1-527-839-00	FILTER, CERAMIC
CF301	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF302	1-409-332-00	CERAMIC TRAP (4.5MHZ)

DIODE

Ref.No	Part No.	Description
D001	8-719-101-02	DIODE RD30E-B4
D002	8-719-102-58	DIODE RD3.6E-N2
D003	8-759-157-40	IC UPC574J
D004	8-719-100-65	DIODE RD12E-B2
D102	8-719-911-19	DIODE 1SS119
D201	8-719-100-42	DIODE RD6.8E-B3
D202	8-719-911-19	DIODE 1SS119
D203	8-719-911-19	DIODE 1SS119
D204	8-719-911-19	DIODE 1SS119
D205	8-719-911-19	DIODE 1SS119
D206	8-719-911-19	DIODE 1SS119
D207	8-719-100-65	DIODE RD12E-B2
D208	8-719-911-19	DIODE 1SS119
D209	8-719-911-19	DIODE 1SS119
D210	8-719-911-19	DIODE 1SS119
D301	8-719-026-11	DIODE 1T261
D302	8-719-026-11	DIODE 1T261
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119

DELAY LINE

Ref.No	Part No.	Description	Remark
DL301	1-415-330-00	DELAY LINE, Y	
DL302	1-415-185-12	DELAY LINE (1H)	

CONNECTOR

Ref.No	Part No.	Description	Remark
F7	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	

IC

Ref.No	Part No.	Description	Remark
IC001	8-759-600-63	IC CX519-004P	
IC002	8-759-600-66	IC M58653P	
IC003	8-759-171-05	IC UPC7805H	
IC101	8-759-800-12	IC LA7920	
IC102	8-759-276-07	IC TA7607AP	
IC201	6-066-719-40	IC TDA2546	
IC202	8-759-007-54	IC TDA4940	
IC203	8-759-007-55	IC TDA4944	
IC204	8-759-140-53	IC UPD4053BC	
IC205	8-759-145-58	IC UPC4558C	
IC206	8-759-276-30	IC TA7630P	
IC207	8-759-800-15	IC LA4440R	
IC301	8-759-113-65	IC UPC1365C	

COIL

Ref.No	Part No.	Description	Remark
L101	1-408-623-00	MICRO INDUCTOR 470UH	
L102	1-404-476-00	COIL, IF	
L103	1-404-475-00	COIL, IF	
L105	1-408-593-00	MICRO INDUCTOR 1.5UH	
L107	1-404-427-00	VIFT	
L108	1-404-427-00	VIFT	
L109	1-408-600-00	MICRO INDUCTOR 5.6UH	
L110	1-408-600-00	MICRO INDUCTOR 5.6UH	
L201	1-404-477-00	COIL, IF	
L202	1-404-476-00	COIL, IF	
L203	1-408-597-00	MICRO INDUCTOR 3.3UH	
L204	1-408-600-00	MICRO INDUCTOR 5.6UH	
L205	1-404-477-00	COIL, IF	
L206	1-408-947-00	MICRO INDUCTOR 2.2MMH	
L301	1-408-605-00	MICRO INDUCTOR 15UH	
L303	1-408-600-00	MICRO INDUCTOR 5.6UH	
L304	1-408-942-00	MICRO INDUCTOR 3.3MMH	
L305	1-408-607-00	MICRO INDUCTOR 22UH	
L306	1-408-602-00	MICRO INDUCTOR 8.2UH	
L307	1-408-607-00	MICRO INDUCTOR 22UH	
L308	1-408-602-00	MICRO INDUCTOR 8.2UH	
L309	1-408-603-00	MICRO INDUCTOR 10UH	
L310	1-408-243-00	MICRO INDUCTOR 12MMH	
L311	1-408-603-00	MICRO INDUCTOR 10UH	
L312	1-408-608-00	MICRO INDUCTOR 27UH	

CONNECTOR

Ref.No	Part No.	Description	Remark
M12	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q001	8-729-603-50	TRANSISTOR 2SC403SP	
Q002	8-729-245-83	TRANSISTOR 2SC2458	
Q003	8-729-245-83	TRANSISTOR 2SC2458	
Q004	8-729-245-83	TRANSISTOR 2SC2458	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q101	8-729-245-83	TRANSISTOR 2SC2458	
Q102	8-765-300-00	TRANSISTOR 2SC2009	
Q201	8-729-245-83	TRANSISTOR 2SC2458	
Q202	8-729-117-54	TRANSISTOR 2SA1175	
Q203	8-729-245-83	TRANSISTOR 2SC2458	
Q204	8-729-245-83	TRANSISTOR 2SC2458	
Q205	8-729-245-83	TRANSISTOR 2SC2458	
Q206	8-729-245-83	TRANSISTOR 2SC2458	
Q207	8-729-245-83	TRANSISTOR 2SC2458	
Q208	8-729-900-33	TRANSISTOR DTC144EF	
Q209	8-729-900-33	TRANSISTOR DTC144EF	
Q210	8-729-900-33	TRANSISTOR DTC144EF	
Q301	8-729-245-83	TRANSISTOR 2SC2458	
Q302	8-729-245-83	TRANSISTOR 2SC2458	
Q303	8-729-117-54	TRANSISTOR 2SA1175	
Q304	8-729-117-54	TRANSISTOR 2SA1175	
Q305	8-729-245-83	TRANSISTOR 2SC2458	
Q306	8-729-245-83	TRANSISTOR 2SC2458	
Q307	8-729-117-54	TRANSISTOR 2SA1175	
Q308	8-729-245-83	TRANSISTOR 2SC2458	
Q309	8-769-200-30	TRANSISTOR 2SK107-3	
Q310	8-729-245-83	TRANSISTOR 2SC2458	
Q311	8-729-117-54	TRANSISTOR 2SA1175	
Q312	8-729-245-83	TRANSISTOR 2SC2458	
Q313	8-729-117-54	TRANSISTOR 2SA1175	
Q314	8-729-245-83	TRANSISTOR 2SC2458	
Q315	8-729-245-83	TRANSISTOR 2SC2458	

RESISTOR

Ref.No	Part No.	Description				Remark
R001	1-247-831-00	CARBON	1K	5%	1/6W	
R002	1-247-841-00	CARBON	2.7K	5%	1/6W	
R003	1-247-831-00	CARBON	1K	5%	1/6W	
R004	1-247-841-00	CARBON	2.7K	5%	1/6W	
R005	1-247-857-00	CARBON	12K	5%	1/6W	
R006	1-247-871-00	CARBON	47K	5%	1/6W	
R007	1-247-863-00	CARBON	22K	5%	1/6W	
R008	1-247-863-00	CARBON	22K	5%	1/6W	
R009	1-247-863-00	CARBON	22K	5%	1/6W	
R010	1-247-863-00	CARBON	22K	5%	1/6W	
R011	1-247-831-00	CARBON	1K	5%	1/6W	
R012	1-247-863-00	CARBON	22K	5%	1/6W	
R013	1-247-863-00	CARBON	22K	5%	1/6W	
R014	1-247-847-00	CARBON	4.7K	5%	1/6W	
R015	1-247-663-00	CARBON	1.5K	5%	1/4W	F
R016	1-247-863-00	CARBON	22K	5%	1/6W	
R017	1-247-863-00	CARBON	22K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R018	1-247-663-00	CARBON	1.5K	5%	1/4W	F
R019	1-247-863-00	CARBON	22K	5%	1/6W	
R020	1-247-839-00	CARBON	2.2K	5%	1/6W	
R021	1-247-863-00	CARBON	22K	5%	1/6W	
R022	1-247-871-00	CARBON	47K	5%	1/6W	
R023	1-247-875-00	CARBON	68K	5%	1/6W	
R024	1-247-863-00	CARBON	22K	5%	1/6W	
R025	1-247-871-00	CARBON	47K	5%	1/6W	
R026	1-247-847-00	CARBON	4.7K	5%	1/6W	
R027	1-247-855-00	CARBON	10K	5%	1/6W	
R028	1-247-855-00	CARBON	10K	5%	1/6W	
R029	1-247-871-00	CARBON	47K	5%	1/6W	
R030	1-247-859-00	CARBON	15K	5%	1/6W	
R031	1-247-871-00	CARBON	47K	5%	1/6W	
R032	1-247-847-00	CARBON	4.7K	5%	1/6W	
R033	1-247-863-00	CARBON	22K	5%	1/6W	
R034	1-247-871-00	CARBON	47K	5%	1/6W	
R035	1-247-807-00	CARBON	100	5%	1/6W	
R036	1-247-807-00	CARBON	100	5%	1/6W	
R038	1-247-831-00	CARBON	1K	5%	1/6W	
R039	1-247-831-00	CARBON	1K	5%	1/6W	
R040	1-247-831-00	CARBON	1K	5%	1/6W	
R044	1-247-815-00	CARBON	220	5%	1/6W	
R045	1-247-815-00	CARBON	220	5%	1/6W	
R046	1-247-815-00	CARBON	220	5%	1/6W	
R047	1-247-815-00	CARBON	220	5%	1/6W	
R048	1-247-815-00	CARBON	220	5%	1/6W	
R049	1-247-815-00	CARBON	220	5%	1/6W	
R050	1-247-815-00	CARBON	220	5%	1/6W	
R051	1-247-799-00	CARBON	47	5%	1/6W	
R052	1-247-799-00	CARBON	47	5%	1/6W	
R053	1-247-799-00	CARBON	47	5%	1/6W	
R054	1-247-831-00	CARBON	1K	5%	1/6W	
R055	1-247-831-00	CARBON	1K	5%	1/6W	
R056	1-247-119-00	CARBON	330	5%	1/4W	F
R101	1-247-839-00	CARBON	2.2K	5%	1/6W	
R102	1-247-839-00	CARBON	2.2K	5%	1/6W	
R104	1-247-891-00	CARBON	330K	5%	1/6W	
R105	1-247-843-00	CARBON	3.3K	5%	1/6W	
R106	1-247-867-00	CARBON	33K	5%	1/6W	
R107	1-247-877-00	CARBON	82K	5%	1/6W	
R108	1-247-886-00	CARBON	200K	5%	1/6W	
R109	1-247-847-00	CARBON	4.7K	5%	1/6W	
R110	1-247-845-00	CARBON	3.9K	5%	1/6W	
R111	1-247-815-00	CARBON	220	5%	1/6W	
R112	1-247-831-00	CARBON	1K	5%	1/6W	
R113	1-247-815-00	CARBON	220	5%	1/6W	
R114	1-247-837-00	CARBON	1.8K	5%	1/6W	
R115	1-247-841-00	CARBON	2.7K	5%	1/6W	
R117	1-247-835-00	CARBON	1.5K	5%	1/6W	
R118	1-247-901-00	CARBON	820K	5%	1/6W	
R151	1-247-879-00	CARBON	100K	5%	1/6W	
R152	1-247-879-00	CARBON	100K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R153	1-247-863-00	CARBON	22K	5%	1/6W	
R154	1-247-857-00	CARBON	12K	5%	1/6W	
R202	1-247-829-00	CARBON	820	5%	1/6W	
R203	1-247-829-00	CARBON	820	5%	1/6W	
R204	1-247-829-00	CARBON	820	5%	1/6W	
R205	1-247-863-00	CARBON	22K	5%	1/6W	
R206	1-247-847-00	CARBON	4.7K	5%	1/6W	
R207	1-247-877-00	CARBON	82K	5%	1/6W	
R208	1-247-831-00	CARBON	1K	5%	1/6W	
R209	1-247-869-00	CARBON	39K	5%	1/6W	
R211	1-247-839-00	CARBON	2.2K	5%	1/6W	
R212	1-247-871-00	CARBON	47K	5%	1/6W	
R213	1-247-819-00	CARBON	330	5%	1/6W	
R214	1-247-819-00	CARBON	330	5%	1/6W	
R215	1-247-839-00	CARBON	2.2K	5%	1/6W	
R216	1-247-865-00	CARBON	27K	5%	1/6W	
R217	1-247-863-00	CARBON	22K	5%	1/6W	
R219	1-247-879-00	CARBON	100K	5%	1/6W	
R220	1-247-879-00	CARBON	100K	5%	1/6W	
R221	1-247-879-00	CARBON	100K	5%	1/6W	
R222	1-247-879-00	CARBON	100K	5%	1/6W	
R223	1-247-831-00	CARBON	1K	5%	1/6W	
R224	1-247-831-00	CARBON	1K	5%	1/6W	
R225	1-247-831-00	CARBON	1K	5%	1/6W	
R226	1-247-831-00	CARBON	1K	5%	1/6W	
R227	1-247-863-00	CARBON	22K	5%	1/6W	
R228	1-246-993-00	CARBON	470	5%	1/8W	F
R229	1-247-835-00	CARBON	1.5K	5%	1/6W	
R230	1-247-835-00	CARBON	1.5K	5%	1/6W	
R231	1-247-831-00	CARBON	1K	5%	1/6W	
R232	1-247-831-00	CARBON	1K	5%	1/6W	
R238	1-247-855-00	CARBON	10K	5%	1/6W	
R239	1-247-855-00	CARBON	10K	5%	1/6W	
R240	1-247-879-00	CARBON	100K	5%	1/6W	
R241	1-247-879-00	CARBON	100K	5%	1/6W	
R242	1-247-879-00	CARBON	100K	5%	1/6W	
R243	1-247-879-00	CARBON	100K	5%	1/6W	
R244	1-247-895-00	CARBON	470K	5%	1/6W	
R246	1-247-887-00	CARBON	220K	5%	1/6W	
R247	1-247-887-00	CARBON	220K	5%	1/6W	
R248	1-247-855-00	CARBON	10K	5%	1/6W	
R249	1-247-855-00	CARBON	10K	5%	1/6W	
R250	1-247-895-00	CARBON	470K	5%	1/6W	
R251	1-247-848-00	CARBON	5.1K	5%	1/6W	
R252	1-247-838-00	CARBON	2K	5%	1/6W	
R253	1-247-877-00	CARBON	82K	5%	1/6W	
R254	1-247-855-00	CARBON	10K	5%	1/6W	
R255	1-247-855-00	CARBON	10K	5%	1/6W	
R256	1-247-839-00	CARBON	2.2K	5%	1/6W	
R257	1-247-855-00	CARBON	10K	5%	1/6W	
R258	1-247-807-00	CARBON	100	5%	1/8W	F
R259	1-247-887-00	CARBON	220K	5%	1/6W	
R260	1-247-876-00	CARBON	75K	5%	1/6W	
R261	1-247-869-00	CARBON	39K	5%	1/6W	
R262	1-247-855-00	CARBON	10K	5%	1/6W	
R263	1-247-857-00	CARBON	12K	5%	1/6W	
R264	1-247-879-00	CARBON	100K	5%	1/6W	
R265	1-247-879-00	CARBON	100K	5%	1/6W	
R266	1-247-871-00	CARBON	47K	5%	1/6W	
R270	1-247-855-00	CARBON	10K	5%	1/6W	
R271	1-247-855-00	CARBON	10K	5%	1/6W	
R272	1-247-855-00	CARBON	10K	5%	1/6W	
R273	1-247-855-00	CARBON	10K	5%	1/6W	
R274	1-247-835-00	CARBON	1.5K	5%	1/6W	
R275	1-247-887-00	CARBON	220K	5%	1/6W	
R276	1-247-887-00	CARBON	220K	5%	1/6W	
R277	1-247-855-00	CARBON	10K	5%	1/6W	
R278	1-247-855-00	CARBON	10K	5%	1/6W	
R279	1-247-825-00	CARBON	560	5%	1/6W	
R280	1-247-825-00	CARBON	560	5%	1/6W	
R281	1-247-775-00	CARBON	4.7	5%	1/6W	
R282	1-247-775-00	CARBON	4.7	5%	1/6W	
R283	1-247-871-00	CARBON	47K	5%	1/6W	
R284	1-247-847-00	CARBON	4.7K	5%	1/6W	
R285	1-247-847-00	CARBON	4.7K	5%	1/6W	
R301	1-247-805-00	CARBON	82	5%	1/6W	
R302	1-247-805-00	CARBON	82	5%	1/6W	
R303	1-247-821-00	CARBON	390	5%	1/6W	
R304	1-247-819-00	CARBON	330	5%	1/6W	
R305	1-247-863-00	CARBON	22K	5%	1/6W	
R306	1-247-851-00	CARBON	6.8K	5%	1/6W	
R307	1-247-833-00	CARBON	1.2K	5%	1/6W	
R308	1-247-831-00	CARBON	1K	5%	1/6W	
R309	1-247-867-00	CARBON	33K	5%	1/6W	
R310	1-247-871-00	CARBON	47K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R312	1-247-813-00	CARBON	180	5%	1/6W	
R313	1-247-831-00	CARBON	1K	5%	1/6W	
R314	1-247-799-00	CARBON	47	5%	1/6W	
R316	1-247-855-00	CARBON	10K	5%	1/6W	
R317	1-247-818-00	CARBON	300	5%	1/6W	
R318	1-247-859-00	CARBON	15K	5%	1/6W	
R319	1-247-835-00	CARBON	1.5K	5%	1/6W	
R320	1-247-831-00	CARBON	1K	5%	1/6W	
R321	1-247-831-00	CARBON	1K	5%	1/6W	
R322	1-247-821-00	CARBON	390	5%	1/6W	
R324	1-247-831-00	CARBON	1K	5%	1/6W	
R325	1-247-831-00	CARBON	1K	5%	1/6W	
R326	1-247-833-00	CARBON	1.2K	5%	1/6W	
R327	1-247-835-00	CARBON	1.5K	5%	1/6W	
R328	1-247-835-00	CARBON	1.5K	5%	1/6W	
R329	1-247-831-00	CARBON	1K	5%	1/6W	
R330	1-247-829-00	CARBON	820	5%	1/6W	
R331	1-247-865-00	CARBON	27K	5%	1/6W	
R332	1-247-865-00	CARBON	27K	5%	1/6W	
R333	1-247-839-00	CARBON	2.2K	5%	1/6W	
R334	1-247-815-00	CARBON	220	5%	1/6W	
R335	1-247-821-00	CARBON	390	5%	1/6W	
R336	1-247-815-00	CARBON	220	5%	1/6W	
R337	1-247-821-00	CARBON	390	5%	1/6W	
R338	1-247-823-00	CARBON	470	5%	1/6W	
R339	1-247-863-00	CARBON	22K	5%	1/6W	
R340	1-247-857-00	CARBON	12K	5%	1/6W	
R341	1-247-847-00	CARBON	4.7K	5%	1/6W	
R342	1-247-831-00	CARBON	1K	5%	1/6W	
R343	1-247-879-00	CARBON	100K	5%	1/6W	
R344	1-247-807-00	CARBON	100	5%	1/6W	
R345	1-247-855-00	CARBON	10K	5%	1/6W	
R346	1-247-863-00	CARBON	22K	5%	1/6W	
R347	1-247-887-00	CARBON	220K	5%	1/6W	
R348	1-247-839-00	CARBON	2.2K	5%	1/6W	
R349	1-247-851-00	CARBON	6.8K	5%	1/6W	
R350	1-247-877-00	CARBON	82K	5%	1/6W	
R351	1-247-843-00	CARBON	3.3K	5%	1/6W	
R352	1-247-831-00	CARBON	1K	5%	1/6W	
R353	1-247-851-00	CARBON	6.8K	5%	1/6W	
R354	1-247-849-00	CARBON	5.6K	5%	1/6W	
R355	1-247-839-00	CARBON	2.2K	5%	1/6W	
R356	1-247-843-00	CARBON	3.3K	5%	1/6W	
R357	1-247-855-00	CARBON	10K	5%	1/6W	
R358	1-247-859-00	CARBON	15K	5%	1/6W	
R359	1-247-855-00	CARBON	10K	5%	1/6W	
R360	1-247-851-00	CARBON	6.8K	5%	1/6W	
R361	1-247-843-00	CARBON	3.3K	5%	1/6W	
R362	1-247-871-00	CARBON	47K	5%	1/6W	
R363	1-247-903-00	CARBON	1M	5%	1/6W	
R364	1-247-851-00	CARBON	6.8K	5%	1/6W	
R365	1-247-885-00	CARBON	180K	5%	1/6W	
R366	1-247-849-00	CARBON	5.6K	5%	1/6W	
R367	1-247-807-00	CARBON	100	5%	1/6W	
R368	1-247-819-00	CARBON	330	5%	1/6W	
R369	1-247-819-00	CARBON	330	5%	1/6W	
R370	1-247-819-00	CARBON	330	5%	1/6W	
R371	1-247-843-00	CARBON	3.3K	5%	1/6W	
R372	1-247-843-00	CARBON	3.3K	5%	1/6W	
R373	1-247-843-00	CARBON	3.3K	5%	1/6W	
R374	1-247-855-00	CARBON	10K	5%	1/6W	
R375	1-247-807-00	CARBON	100	5%	1/6W	
R376	1-247-807-00	CARBON	100	5%	1/6W	
R377	1-247-871-00	CARBON	47K	5%	1/6W	
R378	1-247-839-00	CARBON	2.2K	5%	1/6W	
R379	1-247-839-00	CARBON	2.2K	5%	1/6W	
R380	1-247-841-00	CARBON	2.7K	5%	1/6W	
R381	1-247-831-00	CARBON	1K	5%	1/6W	
R382	1-247-828-00	CARBON	750	5%	1/6W	
R383	1-247-831-00	CARBON	1K	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV101	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV201	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
RV202	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
RV301	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV302	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K	
RV303	1-228-719-00	RES, ADJ, CERAMIC CARBON 470	
RV304	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV305	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV306	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	

FILTER

Ref.No	Part No.	Description
SF101	1-404-438-00	FILTER, SAW
SF201	♠:4-362-287-00	SHIELD, SAWF

TRANSFORMER

Ref.No	Part No.	Description
T301	1-426-121-00	DAT

TUNER

Ref.No	Part No.	Description
TU101⚠	1-463-421-21	TUNER, ET (BT-883)

CRYSTAL

Ref.No	Part No.	Description
X301	1-527-588-21	OSCILLATOR, CRYSTAL

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Ref.No	Part No.	Description
	♠:A-1330-451-A	C BOARD, COMPLETE *****************
	♠:1-608-335-00	C BOARD
	1-526-616-00	SOCKET, CRT
	♠:4-362-279-00	SPACER, TR

CONNECTOR

Ref.No	Part No.	Description
A5	♠:1-556-699-00	CONNECTOR ASSY (2.5MM) 6P
C1	♠:1-508-786-00	2P PLUG (M)

CAPACITOR

Ref.No	Part No.	Description			
C701	1-123-356-00	ELECT	10MF	20%	50V
C702	1-129-737-00	FILM	0.047MF	20%	630V
C703	1-102-249-00	CERAMIC	680PF	20%	2KV
C704	1-161-316-00	CERAMIC	270PF	10%	50V
C705	1-161-314-00	CERAMIC	180PF	10%	50V
C706	1-161-314-00	CERAMIC	180PF	10%	

CONNECTOR

Ref.No	Part No.	Description
D5	♠:1-555-948-00	CONNECTOR ASSY, MINIATURE 5P

COIL

Ref.No	Part No.	Description
L701	1-407-753-00	MICRO INDUCTOR 180UH
L702	1-407-556-00	CHOKE COIL 6.8UH

TRANSISTOR

Ref.No	Part No.	Description
Q701	8-729-322-78	TRANSISTOR 2SC2278
Q702	8-729-322-78	TRANSISTOR 2SC2278

Ref.No	Part No.	Description				Remark
Q703	8-729-322-78	TRANSISTOR 2SC2278				
		RESISTOR				
R701	1-215-134-00	METAL	180	5%	1/4W	
R702	1-215-168-00	METAL	4.7K	5%	1/4W	
R703	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R704	1-215-168-00	METAL	4.7K	5%	1/4W	
R705	1-215-134-00	METAL	180	5%	1/4W	
R706	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R707	1-215-138-00	METAL	270	5%	1/4W	
R708	1-215-168-00	METAL	4.7K	5%	1/4W	
R709	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R710	1-202-824-00	SOLID	3.3K		1/2W	
R711	1-202-837-00	SOLID	82K		1/2W	
R713	1-202-824-00	SOLID	3.3K		1/2W	
R714	1-202-609-00	SOLID	33K		1/2W	
R715	1-202-841-00	SOLID	180K		1/2W	
R716	1-202-824-00	SOLID	3.3K		1/2W	
R717	1-202-719-00	SOLID	1M	10%	1/2W	
R718	1-202-549-00	SOLID	100	10%	1/2W	
R719	1-202-842-00	SOLID	220K		1/2W	
R720	1-202-846-00	SOLID	470K		1/2W	
R721	1-202-848-00	SOLID	680K		1/2W	
R722	1-215-128-00	METAL	100	5%	1/4W	
R723	1-215-128-00	METAL	100	5%	1/4W	
R724	1-215-128-00	METAL	100	5%	1/4W	
		VARIABLE RESISTOR				
RV701	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV702	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV703	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV704	1-228-717-00	RES, ADJ, CERAMIC CARBON 220				
RV705	1-228-717-00	RES, ADJ, CERAMIC CARBON 220				
RV706	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M				
RV707	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M				
		SPARK GAP				
SG701	1-519-063-XX	DISCHARGING GAP				
SG702	1-519-063-XX	DISCHARGING GAP				
SG703	1-519-063-XX	DISCHARGING GAP				
SG704	1-519-063-XX	DISCHARGING GAP				
SG705	1-519-063-XX	DISCHARGING GAP				
SG706	1-519-063-XX	DISCHARGING GAP				

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	●:A-1345-385-A	D BOARD, COMPLETE *****************				
		CAPACITOR				
C501	1-123-024-00	ELECT	33MF		160V	
C502	1-123-333-00	ELECT	100MF	20%	25V	
C503	1-108-385-00	MYLAR	0.047MF	10%	100V	

Ref.No	Part No.	Description			Remark
C504	1-108-365-00	MYLAR	0.001MF	10%	100V
C505	1-108-381-00	MYLAR	0.022MF	10%	100V
C506	1-108-379-00	MYLAR	0.015MF	10%	100V
C507	1-102-989-00	CERAMIC	68PF	5%	500V
C508	1-123-380-00	ELECT	1MF	20%	50V
C509	1-123-380-00	ELECT	1MF	20%	50V
C510	1-108-381-00	MYLAR	0.022MF	10%	100V
C511	1-106-180-00	MYLAR	0.0022MF	5%	100V
C512	1-129-794-00	FILM	0.0033MF	5%	100V
C513	1-123-336-00	ELECT	470MF	20%	25V
C516	1-108-595-00	MYLAR	0.047MF	5%	50V
C517	1-102-228-00	CERAMIC	470PF	10%	500V
C518	1-123-356-00	ELECT	10MF	20%	25V
C519	1-131-367-00	TANTALUM	22MF	10%	20V
C521	1-130-640-00	FILM	0.47MF	5%	50V
C522	1-123-379-00	ELECT	0.47MF	20%	50V
C523	1-123-380-00	ELECT	1MF	20%	50V
C524	1-108-377-00	MYLAR	0.01MF	10%	100V
C525	1-123-380-00	ELECT	1MF	20%	50V
C526	1-108-384-00	MYLAR	0.039MF	10%	100V
C527	1-108-367-00	MYLAR	0.0015MF	10%	100V
C528	1-123-380-00	ELECT	1MF	20%	50V
C529	1-108-198-00	MYLAR	0.012MF	10%	100V
C531	1-123-322-00	ELECT	330MF	20%	16V
C533	1-123-360-00	ELECT	100MF	20%	50V
C534	1-108-377-00	MYLAR	0.01MF	10%	100V
C535	1-108-372-00	MYLAR	0.0039MF	10%	100V
C536	1-124-192-00	ELECT	4.7MF	20%	50V
C537	1-108-377-00	MYLAR	0.01MF	10%	100V
C538	1-108-385-00	MYLAR	0.047MF	10%	100V
C539	1-101-810-00	CERAMIC	100PF	5%	500V
C540	1-108-365-00	MYLAR	0.001MF	10%	100V
C541⚠.	1-161-961-11	CERAMIC	0.0022MF	10%	3KV
C542	1-108-387-00	MYLAR	0.068MF	10%	100V
C543⚠.	1-130-956-11	FILM	0.0133MF	3%	1.2KV
C544	1-130-959-00	FILM	0.047MF	5%	400V
C545	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C546	1-123-254-00	ELECT	10MF		250V
C547	1-102-038-00	CERAMIC	0.001MF		500V
C548	1-123-357-00	ELECT	22MF	20%	50V
C549	1-123-334-00	ELECT	220MF	20%	25V
C550	1-123-333-00	ELECT	100MF	20%	25V
C551	1-102-038-00	CERAMIC	0.001MF		500V
C552	1-123-346-00	ELECT	220MF	20%	35V
C553	1-108-381-00	MYLAR	0.022MF	10%	100V
C554	1-108-385-00	MYLAR	0.047MF	10%	100V
C555	1-123-332-00	ELECT	47MF	20%	16V
C556	1-123-332-00	ELECT	47MF	20%	16V
C557	1-130-547-00	FILM	1.5MF	5%	200V
C558	1-136-105-00	MYLAR	0.33MF	10%	250V
C559	1-108-377-00	MYLAR	0.01MF	10%	100V
C560	1-130-547-00	FILM	1.5MF	5%	200V
C561	1-123-356-00	ELECT	10MF	20%	25V

Ref.No	Part No.	Description			Remark
C562	1-102-002-00	CERAMIC	680PF	10%	500V
C563	1-123-379-00	ELECT	0.47MF	20%	50V
C564	1-101-003-00	CERAMIC	0.0047MF		50V
C565	1-108-381-00	MYLAR	0.022MF	10%	100V
C566	1-108-377-00	MYLAR	0.01MF	10%	100V
		CONNECTOR			
D1	●:1-508-765-00	3P PLUG (M)			
D2	●:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P			
D3	●:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
D4	●:1-508-786-00	2P PLUG (M)			
D5	●:1-508-767-00	5P PLUG			
D6	●:1-508-784-00	1P PLUG			
D7	●:1-508-784-00	1P PLUG			
D8	●:1-508-784-00	1P PLUG			
		DIODE			
D501	8-719-911-19	DIODE ISS119			
D502	8-719-911-19	DIODE ISS119			
D504	8-719-911-19	DIODE ISS119			
D506	8-719-300-45	DIODE EM1Z			
D507	8-719-305-15	DIODE GH3F			
D508	8-719-928-08	DIODE ERD28-08			
D509	8-719-903-09	DIODE V30N			
D510	8-719-300-76	DIODE RH1A			
D511	8-719-901-93	DIODE V19E			
D512	8-719-901-93	DIODE V19E			
D513	8-719-901-93	DIODE V19E			
D514	8-719-300-45	DIODE EM1Z			
D515	8-719-300-45	DIODE EM1Z			
		DELAY LINE			
DY1	●:1-506-348-XX	3P PLUG (L)			
DY2	●:1-506-348-XX	3P PLUG (L)			
		IC			
IC501	8-759-100-60	IC UPC1377C			
IC502	8-759-113-78	IC UPC1378H-L			
IC503	8-759-905-39	IC TDA1082			
IC505	8-759-700-06	IC NJM7812B			
	●:4-348-704-00	HEAT SINK (A), IC505			
		COIL			
L502	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE 3.3MMH			
L503	1-408-225-00	MICRO INDUCTOR 3.3UH			
L504	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH			
L505	1-459-104-00	COIL, DUST CORE 10MMH			
L506	1-408-242-00	MICRO INDUCTOR 10MMH			
L507	1-459-241-00	COIL, HORIZONTAL LINIALITY			
L508	1-459-390-00	COIL (WITH CORE)			
L509	1-408-240-00	MICRO INDUCTOR 6.8MMH			

Ref.No	Part No.	Description				Remark
		TRANSISTOR				
Q501	8-729-245-83	TRANSISTOR 2SC2458				
Q502	8-729-168-82	TRANSISTOR 2SC2688				
Q503	8-729-341-34	TRANSISTOR 2SC1413A				
	3-701-609-00	BUSHING (B), TR, Q503				
	●:4-314-938-01	RETAINER (TO-3), TRANSISTOR, Q503				
	●:4-329-407-00	LUG, GROUND, Q503				
	●:4-336-010-00	HEAT SINK, Q503				
	●:4-362-210-00	SHEET (TO-3), Q503				
Q509	8-729-313-42	TRANSISTOR 2SD1134				
	●:4-323-833-00	HEAT SINK, PIN OUT, Q509				
		RESISTOR				
R501	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R502	1-215-140-00	METAL	330	5%	1/4W	
R503	1-247-613-00	CARBON	6.8K	5%	1/8W	
R504	1-215-198-00	METAL	82K	5%	1/4W	
R505	1-215-164-00	METAL	3.3K	5%	1/4W	
R506	1-247-168-00	METAL	36K	5%	1/4W	
R507	1-215-178-00	METAL	12K	5%	1/4W	
R511	1-215-140-00	METAL	330	5%	1/4W	
R512	1-214-768-00	METAL	43K	1%	1/4W	
R513	1-215-168-00	METAL	4.7K	5%	1/4W	
R514	1-215-182-00	METAL	18K	5%	1/4W	
R515	1-215-168-00	METAL	4.7K	5%	1/4W	
R516	1-215-168-00	METAL	4.7K	5%	1/4W	
R517	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R518	1-215-142-00	METAL	390	5%	1/4W	
R519	1-215-162-00	METAL	2.7K	5%	1/4W	
R520	1-214-770-00	METAL	51K	1%	1/4W	
R521	1-215-148-00	METAL	680	5%	1/4W	
R522	1-247-120-00	METAL	360	5%	1/4W	
R523	1-214-755-00	METAL	12K	1%	1/4W	
R524	1-214-759-00	METAL	18K	1%	1/4W	
R525	1-215-194-00	METAL	56K	5%	1/4W	
R526	1-215-162-00	METAL	2.7K	5%	1/4W	
R527	1-215-166-00	METAL	3.9K	5%	1/4W	
R528	1-215-138-00	METAL	270	5%	1/4W	
R530	1-206-694-00	METAL OXIDE	18K	5%	2W	F
R531	1-215-198-00	METAL	82K	5%	1/4W	
R532	1-215-152-00	METAL	1K	5%	1/4W	
R533	1-247-095-00	METAL	33	5%	1/4W	
R544	1-215-200-00	METAL	100K	5%	1/4W	
R545	1-215-180-00	METAL	15K	5%	1/4W	
R546	1-215-176-00	METAL	10K	5%	1/4W	
R547	1-215-148-00	METAL	680	5%	1/4W	
R551	1-247-783-00	CARBON	10	5%	1/8W	F
R552	1-213-137-00	METAL OXIDE	330	5%	1W	F
R553	1-213-137-00	METAL OXIDE	330	5%	1W	F
R554	1-215-174-00	METAL	8.2K	5%	1/4W	
R555	1-215-188-00	METAL	33K	5%	1/4W	
R556	1-215-194-00	METAL	56K	5%	1/4W	
R557	1-215-182-00	METAL	18K	5%	1/4W	

Ref.No	Part No.	Description				Remark
R558	1-215-182-00	METAL	18K	5%	1/4W	
R559	1-215-169-00	METAL	5.1K	5%	1/4W	
R560	1-215-167-00	METAL	4.3K	5%	1/4W	
R561	1-215-196-00	METAL	68K	5%	1/4W	
R562	1-215-182-00	METAL	18K	5%	1/4W	
R563	1-215-136-00	METAL	220	5%	1/4W	
R564	1-215-176-00	METAL	10K	5%	1/4W	
R565	1-215-192-00	METAL	47K	5%	1/4W	
R566	1-215-130-00	METAL	120	5%	1/4W	
R567	1-205-642-00	CEMENTED	3.3K	10%	5W	
R568	1-246-995-00	CARBON	1.8K	5%	1/8W	F
R569	1-247-831-00	CARBON	1K	5%	1/8W	F
R570	1-246-979-00	CARBON	1.2	5%	1/8W	F
R571	1-247-636-00	CARBON	0.47	5%	1/8W	F
R573	1-247-636-00	CARBON	0.47	5%	1/8W	F
R574	1-202-407-15	SOLID	10K	5%	1/4W	
R575	1-215-170-00	METAL	5.6K	5%	1/4W	
R576	1-214-779-00	METAL	120K	1%	1/4W	
R577	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R578	1-213-132-00	METAL OXIDE	120	5%	1W	F
R579	1-213-147-00	METAL OXIDE	2.2K	5%	1W	F
R599	1-247-131-00	METAL	1K	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV501	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
RV502	1-228-719-00	RES, ADJ, CERAMIC CARBON 470	
RV504	1-224-248-XX	RES, ADJ, METAL GLAZE 470	
RV505	1-228-718-00	RES, ADJ, CERAMIC CARBON 330	
RV506	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K	
RV507	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV508	1-223-102-00	RES, ADJ, WIREWOUND 120	

SPARK GAP

Ref.No	Part No.	Description	Remark
SG501	1-519-063-XX	DISCHARGING GAP	

TRANSFORMER

Ref.No	Part No.	Description	Remark
T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T503	**⚠1-421-520-00**	**TRANSFORMER, FERRITE (PHT)**	

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♠:1-610-004-00 J2 BOARD

CAPACITOR

Ref.No	Part No.	Description				Remark
C951	1-101-003-00	CERAMIC	0.0047MF		50V	
C952	1-101-003-00	CERAMIC	0.0047MF		50V	

CONNECTOR

Ref.No	Part No.	Description	Remark
J4	♠:1-560-278-00	PLUG, CONNECTOR 3P	
J5	♠:1-560-278-00	PLUG, CONNECTOR 4P	

JACK

Ref.No	Part No.	Description	Remark
J951	1-507-657-00	JACK	

RESISTOR

Ref.No	Part No.	Description				Remark
R951	1-244-865-00	CARBON	470	5%	1/2W	
R952	1-244-865-00	CARBON	470	5%	1/2W	

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♠:1-610-005-00 J3 BOARD

CONNECTOR

Ref.No	Part No.	Description	Remark
J6	♠:1-508-766-00	4P PLUG (M)	
J7	♠:1-556-555-00	CONNECTOR, BOARD IN 5P	

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♠:1-610-003-00 J1 BOARD

CAPACITOR

Ref.No	Part No.	Description				Remark
C901	1-101-003-00	CERAMIC	0.0047MF		50V	
C902	1-101-003-00	CERAMIC	0.0047MF		50V	
C903	1-102-973-00	CERAMIC	100PF		50V	
C904	1-102-973-00	CERAMIC	100PF		50V	
C905	1-101-003-00	CERAMIC	0.0047MF		50V	
C906	1-101-003-00	CERAMIC	0.0047MF		50V	
C907	1-110-182-81	MYLAR	0.022MF	10%	250V	
C908	1-110-182-81	MYLAR	0.022MF	10%	250V	

CONNECTOR

Ref.No	Part No.	Description	Remark
J1	♠:1-560-278-00	PLUG, CONNECTOR 10P	
J2	♠:1-560-278-00	PLUG, CONNECTOR 3P	
J3	♠:1-560-278-00	PLUG, CONNECTOR 4P	
J8	♠:1-560-278-00	PLUG, CONNECTOR 3P	

JACK

Ref.No	Part No.	Description	Remark
J901	1-526-728-00	SOCKET, SPEAKER	
J902	1-526-728-00	SOCKET, SPEAKER	
J903	1-561-580-21	JACK, DIN 6P	
J904	1-562-119-00	CONNECTOR (REC P/B) 5P	

RESISTOR

Ref.No	Part No.	Description				Remark
R901	1-247-831-00	CARBON	1K	5%	1/6W	
R902	1-247-823-00	CARBON	470	5%	1/6W	
R903	1-247-823-00	CARBON	470	5%	1/6W	

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♠:1-610-001-00 H BOARD

♠:4-366-807-00 COVER (C), LED HOLDER

CAPACITOR

Ref.No	Part No.	Description				Remark
C401	1-123-612-00	ELECT	2.2MF	20%	50V	
C402	1-123-608-00	ELECT	0.22MF	20%	50V	

DIODE

Ref.No	Part No.	Description	Remark
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119	
D405	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119	
D407	8-719-911-19	DIODE 1SS119	
D408	8-719-911-19	DIODE 1SS119	
D409	8-719-911-19	DIODE 1SS119	
D410	8-719-911-19	DIODE 1SS119	
D411	8-719-911-19	DIODE 1SS119	
LED401	8-719-803-20	DIODE TLR320	
	♠:1-526-634-00	SOCKET, IC (8P), LED401	
LED402	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED ,LED402	
LED404	8-719-800-24	DIODE TLR147	
	♠:4-362-207-00	HOLDER (P), LED, LED404	
LED406	8-719-901-96	DIODE SLP161B	
	♠:4-357-812-00	HOLDER, LED, LED406	
	♠:4-362-219-00	COVER (W), LED HOLDER, LED406	
LED408	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED, LED408	
LED409	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED, LED409	

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q401	8-729-117-54	TRANSISTOR 2SA1175	
Q402	8-729-245-83	TRANSISTOR 2SC2458	
Q403	8-729-245-83	TRANSISTOR 2SC2458	
Q404	8-729-117-54	TRANSISTOR 2SA1175	
Q405	8-729-245-83	TRANSISTOR 2SC2458	
Q408	8-729-245-83	TRANSISTOR 2SC2458	
Q409	8-729-245-83	TRANSISTOR 2SC2458	

RESISTOR

Ref.No	Part No.	Description				Remark
R401	1-247-861-00	CARBON	18K	5%	1/6W	
R402	1-247-827-00	CARBON	680	5%	1/6W	
R403	1-247-831-00	CARBON	1K	5%	1/6W	
R404	1-247-865-00	CARBON	27K	5%	1/6W	
R405	1-247-863-00	CARBON	22K	5%	1/6W	
R406	1-247-867-00	CARBON	33K	5%	1/6W	
R407	1-247-843-00	CARBON	3.3K	5%	1/6W	
R408	1-247-863-00	CARBON	22K	5%	1/6W	
R409	1-247-863-00	CARBON	22K	5%	1/6W	
R411	1-247-871-00	CARBON	47K	5%	1/6W	
R413	1-247-895-00	CARBON	470K	5%	1/6W	
R415	1-247-863-00	CARBON	22K	5%	1/6W	
R416	1-247-833-00	CARBON	1.2K	5%	1/6W	
R417	1-247-831-00	CARBON	1K	5%	1/6W	
R418	1-247-831-00	CARBON	1K	5%	1/6W	
R419	1-247-839-00	CARBON	2.2K	5%	1/6W	
R421	1-247-831-00	CARBON	1K	5%	1/6W	
R423	1-247-807-00	CARBON	100	5%	1/6W	
R425	1-247-811-00	CARBON	150	5%	1/6W	
R427	1-247-863-00	CARBON	22K	5%	1/6W	
R428	1-247-863-00	CARBON	22K	5%	1/6W	
R430	1-247-863-00	CARBON	22K	5%	1/6W	
R431	1-247-847-00	CARBON	4.7K	5%	1/6W	
R432	1-247-847-00	CARBON	4.7K	5%	1/6W	
R433	1-247-847-00	CARBON	4.7K	5%	1/6W	
R434	1-247-863-00	CARBON	22K	5%	1/6W	
R435	1-247-871-00	CARBON	47K	5%	1/6W	
R436	1-247-863-00	CARBON	22K	5%	1/6W	
R437	1-247-857-00	CARBON	12K	5%	1/6W	
R439	1-247-849-00	CARBON	5.6K	5%	1/6W	
R440	1-247-861-00	CARBON	18K	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV401	1-228-540-00	RES, VAR, CARBON 10K	
RV402	1-228-539-00	RES, VAR, CARBON 10K	
RV403	1-228-539-00	RES, VAR, CARBON 10K	
RV404	1-228-539-00	RES, VAR, CARBON 10K	
RV405	1-228-539-00	RES, VAR, CARBON 10K	
RV406	1-228-539-00	RES, VAR, CARBON 10K	
RV407	1-228-539-00	RES, VAR, CARBON 10K	
RV408	1-228-539-00	RES, VAR, CARBON 10K	
RV409	1-228-540-00	RES, VAR, CARBON 10K	

SWITCH

Ref.No	Part No.	Description	Remark
S401	1-552-774-00	SWITCH, PUSH	
S402	1-552-774-00	SWITCH, PUSH	
S403	1-552-774-00	SWITCH, PUSH	
S404	1-552-774-00	SWITCH, PUSH	
S405	1-552-774-00	SWITCH, PUSH	
S406	1-552-774-00	SWITCH, PUSH	
S407	1-552-774-00	SWITCH, PUSH	
S408	1-552-774-00	SWITCH, PUSH	
S409	1-552-774-00	SWITCH, PUSH	
S410	1-552-774-00	SWITCH, PUSH	
S411	1-552-774-00	SWITCH, PUSH	
S412	1-554-118-00	SWITCH, PUSH	
S413	1-554-118-00	SWITCH, PUSH	

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♠:1-606-794-00 N BOARD

♠:4-342-117-00 CASE, SHIELD (MAIN), R
♠:4-342-118-00 LID, SHIELD CASE, R

CAPCITOR

Ref.No	Part No.	Description				Remark
C1	1-123-617-00	ELECT	10MF	20%	16V	
C2	1-123-617-00	ELECT	10MF	20%	16V	
C3	1-123-617-00	ELECT	10MF	20%	16V	
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V	
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V	
C6	1-123-821-00	ELECT	47MF	20%	16V	

DIODE

Ref.No	Part No.	Description	Remark
D1	8-719-110-32	DIODE PH302B	

IC

Ref.No	Part No.	Description	Remark
IC1	8-759-113-73	IC UPC1373H	

COIL

Ref.No	Part No.	Description	Remark
L1	1-404-310-00	COIL 4.7MMH	

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MISCELLANEOUS

Ref.No	Part No.	Description
	⚠.1-228-714-21	RESISTOR ASSY, HIGH-VOLTAGE
	⚠.1-451-204-31	DEFLECTION YOKE
	1-452-032-00	MAGNET, DISK; 10MM ø
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø
	1-452-146-00	MAGNET, BMC
	⚠.1-536-797-11	TERMINAL BOARD ASSY, ANTENNA
	1-543-179-00	CORE, RING
	⚠.1-551-270-31	CORD, POWER
	●:1-551-604-00	CONNECTOR ASSY, MINIATURE 3P
	●:1-551-612-00	CONNECTOR ASSY, MINIATURE (2P)
	●:1-551-614-00	CONNECTOR ASSY, MINIATURE 2P
	●:1-551-674-00	CONNECTOR ASSY 3P
	●:1-551-796-00	CONNECTOR ASSY (2.5MM) 6P
	●:1-551-922-00	CONNECTOR ASSY 3P
	●:1-555-817-00	CONNECTOR ASSY (2.5MM) 4P
	●:1-556-017-00	CONNECTOR ASSY (2.5MM) 3P
	●:1-556-322-00	CONNECTOR ASSY (2.5MM) 6P
	●:1-556-325-00	CONNECTOR ASSY (2.5MM) 4P
	●:1-556-405-00	CONNECTOR, MINIATURE 2P
	●:1-556-408-00	CONNECTOR ASSY (LARGE) 3P
	●:1-556-412-00	CONNECTOR ASSY (2.5MM) 4P
	●:1-556-651-00	CONNECTOR ASSY (2.5MM) 4P
	●:1-556-879-00	CONNECTOR ASSY (2.5MM) 10P
L901	⚠.1-426-087-61	COIL, DEGAUSSING
L902	⚠.1-426-087-61	COIL, DEGAUSSING
S901	⚠.1-553-225-12	SWITCH, PUSH
SP901	1-503-194-00	SPEAKER
SP902	1-503-194-00	SPEAKER
T502	⚠.1-439-303-00	TRANSFORMER ASSY, FLYBACK
V901	⚠.8-738-704-05	CRT 520SB22

Ref.No	Part No.	Description	Remark

ACCESSORIES AND PACKING MATERIALS

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Part No.	Description	Remark
A-1470-625-A	COMMANDER ASSY (RM-635)	
3-701-360-00	LABEL, TACK	
4-362-269-00	BAG, PROTECTION	
4-362-270-00	CUSHION (UPPER) (ASSY)	
4-362-271-00	CUSHION (LOWER) (ASSY)	
4-364-504-00	INDIVIDUAL CARTON	
4-491-710-10	INSTRUCTION, TELETEXT	
4-493-822-11	MANUAL, INSTRUCTION	

Ref.No.	Part No.	Description	Remark
	●:A-1295-572-A	SUB, V BOARD, COMPLETE (KV2056EC only)	
	●:4-353-518-00	HEAT SINK	

CAPACITOR

Ref.No	Part No.	Description				Remark
C1	1-108-389-00	MYLAR	0.1MF	10%	100V	
C2	1-123-356-00	ELECT	10MF	20%	16V	
C3	1-108-389-00	MYLAR	0.1MF	10%	100V	
C4	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C5	1-102-651-00	CERAMIC	68PF	5%	50V	
C6	1-123-356-00	ELECT	10MF	20%	16V	
C7	1-123-380-00	ELECT	1MF	20%	50V	
C8	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C9	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C10	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C11	1-102-773-00	CERAMIC	330PF	5%	50V	
C12	1-101-984-00	CERAMIC	47PF	5%	50V	
C13	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C14	1-108-389-00	MYLAR	0.1MF	10%	100V	
C15	1-129-794-00	FILM	0.0033MF	5%	100V	
C16	1-108-389-00	ELECT	0.1MF	10%	100V	
C17	1-123-321-00	ELECT	220MF	20%	16V	
C18	1-108-389-00	MYLAR	0.1MF	10%	100V	
C19	1-108-389-00	MYLAR	0.1MF	10%	100V	
C20	1-108-389-00	MYLAR	0.1MF	10%	100V	
C23	1-108-389-00	MYLAR	0.1MF	10%	100V	
C24	1-108-389-00	MYLAR	0.1MF	10%	100V	
C25	1-108-389-00	MYLAR	0.1MF	10%	100V	
C26	1-108-389-00	MYLAR	0.1MF	10%	100V	
C27	1-108-389-00	MYLAR	0.1MF	10%	100V	
C28	1-108-389-00	MYLAR	0.1MF	10%	100V	
C36	1-108-389-00	MYLAR	0.1MF	10%	100V	
C39	1-123-380-00	ELECT	1MF	20%	50V	
C40	1-102-961-00	CERAMIC	27PF	5%	50V	
C41	1-123-296-00	ELECT	220MF	20%	6.3V	
C45	1-108-389-00	MYLAR	0.1MF	10%	100V	
C46	1-101-006-00	CERAMIC	0.047MF		50V	
C47	1-123-332-00	ELECT	47MF	20%	16V	
C48	1-123-297-00	ELECT	330MF	20%	6.3V	
C50	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C52	1-123-321-00	ELECT	220MF	20%	16V	

TRIMMER

Ref.No	Part No.	Description	Remark
CV1	1-141-181-11	CAP, TRIMMER	

DIODE

Ref.No	Part No.	Description	Remark
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-100-68	DIODE RD13E-B2	
D3	8-719-100-36	DIODE RD5.6E-B3	

Ref.No.	Part No.	Description	Remark

IC

Ref.No.	Part No.	Description	Remark
IC1	8-759-950-40	IC SAA5040	
IC2	8-759-950-30	IC SAA5030	
IC3	8-759-950-20	IC SAA5020	
IC4	8-759-950-50	IC SAA5050	
IC5	8-759-901-61	IC SN74LS161AN	
IC6	8-759-901-61	IC SN74LS161AN	
IC7	8-759-900-83	IC SN74LS83AN	
IC8	8-759-121-10	IC UPD2114LC	
IC9	8-759-121-10	IC UPD2114LC	
IC10	8-759-113-87	IC UPC1387C	
IC11	8-759-900-32	IC SN74LS32N	
IC12	8-759-900-02	IC SN74LS02N	

COIL

Ref.No.	Part No.	Description	Remark
L1	1-404-291-00	COIL 10UH	
L2	1-404-292-00	COIL	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q1	8-729-177-43	TRANSISTOR 2SD774	
Q2	8-729-245-83	TRANSISTOR 2SC2458	
Q3	8-729-245-83	TRANSISTOR 2SC2458	
Q4	8-729-109-53	TRANSISTOR 2SD795A	
Q5	8-729-109-53	TRANSISTOR 2SD795A	

RESISTOR

Ref.No.	Part No.	Description				Remark
R1	1-246-465-00	CARBON	470	5%	1/4W	
R2	1-246-465-00	CARBON	470	5%	1/4W	
R3	1-246-465-00	CARBON	470	5%	1/4W	
R4	1-246-521-00	CARBON	100K	5%	1/4W	
R5	1-246-473-00	CARBON	1K	5%	1/4W	
R6	1-246-493-00	CARBON	6.8K	5%	1/4W	
R7	1-246-493-00	CARBON	6.8K	5%	1/4W	
R8	1-246-469-00	CARBON	680	5%	1/4W	
R9	1-246-477-00	CARBON	1.5K	5%	1/4W	
R10	1-246-509-00	CARBON	33K	5%	1/4W	
R11	1-246-475-00	CARBON	1.2K	5%	1/4W	
R12	1-246-475-00	CARBON	1.2K	5%	1/4W	
R13	1-246-475-00	CARBON	1.2K	5%	1/4W	
R14	1-246-493-00	CARBON	6.8K	5%	1/4W	
R20	1-246-497-00	CARBON	10K	5%	1/4W	
R21	1-213-139-00	METAL	470	5%	1W	F
R22	1-244-861-00	CARBON	330	5%	1/2W	
R26	1-231-731-00	COMPOSITION CIRCUIT BLOCK				
R27	1-231-731-00	COMPOSITION CIRCUIT BLOCK				
R28	1-231-731-00	COMPOSITION CIRCUIT BLOCK				
R29	1-246-473-00	CARBON	1K	5%	1/4W	
R31	1-231-731-00	COMPOSITION CIRCUIT BLOCK				
R32	1-231-731-00	COMPOSITION CIRCUIT BLOCK				
R35	1-246-511-00	CARBON	39K	5%	1/4W	
R36	1-246-465-00	CARBON	470	5%	1/4W	
R37	1-246-489-00	CARBON	4.7K	5%	1/4W	
R39	1-246-477-00	CARBON	1.5K	5%	1/4W	
R41	1-246-491-00	CARBON	5.6K	5%	1/4W	
R42	1-246-417-00	CARBON	4.7	5%	1/4W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV1	1-226-851-00	RES, ADJ, CARBON 10K	
RV2	1-226-851-00	RES, ADJ, CARBON 10K	

CONNECTOR

Ref.No.	Part No.	Description	Remark
V1	●:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
V2	●:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
V4	●:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
V5	●:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
V9	●:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	

CRYSTAL

Ref.No.	Part No.	Description	Remark
X1	1-527-734-00	VIBRATOR, CRYSTAL	

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♠:A-1295-763-A A BOARD, COMPLETE
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♠:1-555-706-00 CONNECTOR ASSY (2.5MM) 10P
♠:4-362-292-00 LID, UPPER, SHIELD CASE, VIF
♠:4-362-293-00 CASE (MAIN), SHIELD, VIF
♠:4-362-294-00 LID, BOTTOM, SHIELD CASE, VIF

CONNECTOR

A1	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
A2	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A3	♠:1-508-786-00	2P PLUG (M)
A4	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A5	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
A6	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
A7	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A8	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A9	♠:1-508-784-00	1P PLUG

CAPACITOR

Ref.No	Part No	Description			Remark
C001	1-123-356-00	ELECT	10MF	20%	16V
C002	1-123-356-00	ELECT	10MF	20%	16V
C003	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C004	1-102-973-00	CERAMIC	100PF	5%	50V
C005	1-102-959-00	CERAMIC	22PF	5%	50V
C006	1-102-963-00	CERAMIC	33PF	5%	50V
C007	1-123-356-00	ELECT	10MF	20%	50V
C008	1-108-251-00	MYLAR	0.1MF	5%	50V
C009	1-123-356-00	ELECT	10MF	20%	16V
C010	1-123-356-00	ELECT	10MF	20%	50V
C011	1-101-004-00	CERAMIC	0.01MF		50V
C013	1-123-320-89	ELECT	100MF	20%	16V
C014	1-102-114-00	CERAMIC	470PF	10%	50V
C015	1-123-353-00	ELECT	2.2MF	20%	50V
C016	1-123-320-89	ELECT	100MF	20%	16V
C020	1-123-356-00	ELECT	10MF	20%	25V
C100	1-123-380-00	ELECT	1MF	20%	50V
C101	1-123-380-00	ELECT	1MF	20%	50V
C102	1-123-356-00	ELECT	10MF	20%	25V
C103	1-123-380-00	ELECT	1MF	20%	50V
C106	1-102-963-00	CERAMIC	33PF	5%	50V
C107	1-110-173-81	MYLAR	0.068MF	10%	100V
C108	1-110-173-81	MYLAR	0.068MF	10%	100V
C109	1-123-331-89	ELECT	33MF	20%	25V
C110	1-123-380-00	ELECT	1MF	20%	50V
C112	1-102-514-00	CERAMIC	22PF	5%	50V
C104	1-123-380-00	ELECT	1MF	20%	50V
C105	1-123-318-00	ELECT	33MF	20%	16V
C113	1-102-525-00	CERAMIC	68PF	5%	50V
C115	1-102-523-00	CERAMIC	56PF	5%	50V
C116	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C117	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C118	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C119	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C120	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C121	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C122	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C123	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C124	1-102-529-00	CERAMIC	100PF	5%	50V
C125	1-102-518-00	CERAMIC	33PF	5%	50V
C126	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C127	1-102-529-00	CERAMIC	100PF	5%	50V
C128	1-102-518-00	CERAMIC	33PF	5%	50V
C129	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C130	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C131	1-123-331-89	ELECT	33MF	20%	25V
C132	1-123-351-89	ELECT	0.47MF	20%	50V
C133	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C134	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C135	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C136	1-110-175-81	MYLAR	0.1MF	10%	100V
C137	1-102-529-00	CERAMIC	100PF	5%	50V
C201	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C202	1-123-286-00	ELECT	0.33MF	20%	50V
C203	1-101-004-00	CERAMIC	0.01MF		50V
C204	1-101-361-00	CERAMIC	150PF	5%	50V

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Ref.No	Part No	Description			Remark
C205	1-130-014-00	FILM	470PF	5%	50V
C206	1-123-356-00	ELECT	10MF	20%	16V
C207	1-102-525-00	CERAMIC	68PF	5%	50V
C208	1-101-004-00	CERAMIC	0.01MF		50V
C209	1-101-004-00	CERAMIC	0.01MF		50V
C210	1-123-318-00	ELECT	33MF	20%	16V
C211	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C212	1-108-620-91	MYLAR	0.0033MF	10%	100V
C213	1-108-620-91	MYLAR	0.0033MF	10%	100V
C214	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C215	1-123-356-00	ELECT	10MF	20%	16V
C216	1-123-356-00	ELECT	10MF	20%	16V
C217	1-123-318-00	ELECT	33MF	20%	16V
C218	1-123-356-00	ELECT	10MF	20%	16V
C219	1-123-306-00	ELECT	47MF	20%	10V
C220	1-123-306-00	ELECT	47MF	20%	10V
C221	1-123-332-00	ELECT	47MF	20%	16V
C222	1-123-356-00	ELECT	10MF	20%	16V
C223	1-130-014-00	FILM	470PF	5%	50V
C224	1-101-004-00	CERAMIC	0.01MF		50V
C225	1-101-004-00	CERAMIC	0.01MF		50V
C226	1-102-513-00	CERAMIC	18PF	5%	50V
C227	1-102-513-00	CERAMIC	18PF	5%	50V
C228	1-108-570-00	MYLAR	0.0043MF	5%	50V
C229	1-130-626-00	FILM	0.033MF	5%	50V
C230	1-123-351-89	ELECT	0.47MF	20%	50V
C231	1-123-351-89	ELECT	0.47MF	20%	50V
C232	1-123-380-00	ELECT	1MF	20%	50V
C233	1-123-380-00	ELECT	1MF	20%	50V
C234	1-123-318-00	ELECT	33MF	20%	16V
C237	1-123-356-00	ELECT	10MF	20%	16V
C238	1-123-328-00	ELECT	4.7MF	20%	25V
C239	1-108-393-00	MYLAR	0.22MF	10%	100V
C240	1-123-351-89	ELECT	0.47MF	20%	50V
C241	1-123-322-00	ELECT	330MF	20%	16V
C242	1-123-354-00	ELECT	3.3MF	20%	50V
C235	1-123-318-00	ELECT	33MF	20%	16V
C236	1-123-356-00	ELECT	10MF	20%	16V
C243	1-123-354-00	ELECT	3.3MF	20%	50V
C244	1-123-332-00	ELECT	47MF	20%	16V
C245	1-123-380-00	ELECT	1MF	20%	50V
C246	1-123-380-00	ELECT	1MF	20%	50V
C247	1-123-356-00	ELECT	10MF	20%	16V
C248	1-123-356-00	ELECT	10MF	20%	16V
C249	1-110-186-81	MYLAR	0.0047MF	10%	400V
C250	1-110-176-81	MYLAR	0.12MF	10%	100V
C251	1-123-332-00	ELECT	47MF	20%	16V
C252	1-123-333-00	ELECT	100MF	20%	25V
C253	1-110-176-81	MYLAR	0.12MF	10%	100V
C254	1-110-186-81	MYLAR	0.0047MF	10%	400V
C255	1-123-332-00	ELECT	47MF	20%	16V
C256	1-123-294-89	ELECT	47MF	20%	6.3V
C257	1-123-447-00	ELECT	0.22MF	20%	50V
C258	1-123-447-00	ELECT	0.22MF	20%	50V
C259	1-123-294-89	ELECT	47MF	20%	6.3V
C260	1-123-321-00	ELECT	220MF	20%	16V
C261	1-123-338-00	ELECT	2200MF	20%	25V
C262	1-123-356-00	ELECT	10MF	20%	16V
C263	1-123-356-00	ELECT	10MF	20%	16V
C264	1-123-356-00	ELECT	10MF	20%	16V
C265	1-123-356-00	ELECT	10MF	20%	16V
C266	1-123-586-00	ELECT	0.1MF	20%	50V
C267	1-123-307-00	ELECT	100MF	20%	10V
C268	1-123-307-00	ELECT	100MF	20%	10V
C269	1-123-311-00	ELECT	1000MF	20%	10V
C270	1-123-311-00	ELECT	1000MF	20%	10V
C271	1-110-175-81	MYLAR	0.1MF	10%	100V
C272	1-110-175-81	MYLAR	0.1MF	10%	100V
C275	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C276	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C277	1-101-004-00	CERAMIC	0.01MF		50V
C278	1-123-351-89	ELECT	0.47MF	20%	50V
C279	1-108-620-91	MYLAR	0.0033MF	10%	100V
C280	1-108-620-91	MYLAR	0.0033MF	10%	100V
C281	1-110-182-81	MYLAR	0.022MF	10%	250V
C282	1-110-182-81	MYLAR	0.022MF	10%	250V
C283	1-123-356-00	ELECT	10MF	20%	16V
C284	1-123-356-00	ELECT	10MF	20%	25V
C301	1-123-332-00	ELECT	47MF	20%	16V
C302	1-123-297-00	ELECT	330MF	20%	6.3V
C303	1-101-884-00	CERAMIC	56PF	5%	50V
C304	1-123-318-00	ELECT	33MF	20%	16V
C305	1-123-318-00	ELECT	33MF	20%	16V
C306	1-123-351-89	ELECT	0.47MF	20%	50V
C307	1-123-332-00	ELECT	47MF	20%	16V
C308	1-102-959-00	CERAMIC	22PF	5%	50V
C309	1-101-880-00	CERAMIC	47PF	5%	50V
C310	1-102-678-00	CERAMIC	100PF	5%	50V
C311	1-123-356-00	ELECT	10MF	20%	16V
C312	1-123-331-89	ELECT	33MF	20%	25V
C313	1-101-888-00	CERAMIC	68PF	5%	50V
C314	1-102-953-00	CERAMIC	18PF	5%	50V
C315	1-102-525-00	CERAMIC	68PF	5%	50V
C316	1-110-171-81	MYLAR	0.047MF	10%	100V
C317	1-123-351-89	ELECT	0.47MF	20%	50V
C318	1-110-171-81	MYLAR	0.047MF	10%	100V
C321	1-101-004-00	CERAMIC	0.01MF		50V
C322	1-101-004-00	CERAMIC	0.01MF		50V
C323	1-123-331-89	ELECT	33MF	20%	25V
C324	1-123-331-89	ELECT	33MF	20%	25V
C325	1-101-004-00	CERAMIC	0.01MF		50V
C326	1-123-351-89	ELECT	0.47MF	20%	50V
C319	1-102-971-00	CERAMIC	82PF	5%	50V
C320	1-102-973-00	CERAMIC	100PF	5%	50V
C327	1-123-354-00	ELECT	3.3MF	20%	50V
C328	1-102-887-00	CERAMIC	47PF	5%	50V

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Ref.No	Part No	Description				Remark
C329	1-102-889-00	CERAMIC	39PF	5%	50V	
C330	1-102-678-00	CERAMIC	100PF	5%	50V	
C331	1-102-850-00	CERAMIC	56PF	5%	50V	
C332	1-123-353-00	ELECT	2.2MF	20%	50V	
C333	1-131-371-00	TANTALUM	10MF	20%	16V	
C334	1-101-004-00	CERAMIC	0.01MF		50V	
C335	1-123-331-89	ELECT	33MF	20%	25V	
C336	1-110-175-81	MYLAR	0.1MF	10%	100V	
C337	1-123-380-00	ELECT	1MF	20%	50V	
C338	1-101-004-00	CERAMIC	0.01MF		50V	
C339	1-123-380-00	ELECT	1MF	20%	50V	
C340	1-123-380-00	ELECT	1MF	20%	50V	
C341	1-102-971-00	CERAMIC	82PF	5%	50V	
C342	1-110-190-81	MYLAR	0.01MF	10%	400V	
C343	1-123-380-00	ELECT	1MF	20%	50V	
C344	1-102-963-00	CERAMIC	33PF	5%	50V	
C345	1-101-884-00	CERAMIC	56PF	5%	50V	
C346	1-102-963-00	CERAMIC	33PF	5%	50V	

FILTER

Ref.No	Part No	Description	Remark
CF001	1-527-790-00	OSCILLATOR, CERAMIC	
CF201	1-527-840-00	FILTER, CERAMIC	
CF202	1-527-839-00	FILTER, CERAMIC	
CF301	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
CF302	1-409-332-00	CERAMIC TRAP (4.5MHZ)	

DIODE

Ref.No	Part No	Description	Remark
D001	8-719-101-02	DIODE RD30EB4	
D002	8-719-102-58	DIODE RD3.6EN2	
D003	8-759-157-40	IC UPC574J	
D004	8-719-100-65	DIODE RD12E-B2	
D201	8-719-100-42	DIODE RD6.8E-B3	
D202	8-719-911-19	DIODE 1SS119	
D203	8-719-911-19	DIODE 1SS119	
D204	8-719-911-19	DIODE 1SS119	
D205	8-719-911-19	DIODE 1SS119	
D206	8-719-911-19	DIODE 1SS119	
D207	8-719-100-65	DIODE RD12E-B2	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
D210	8-719-911-19	DIODE 1SS119	
D301	8-719-026-11	DIODE 1T261	
D302	8-719-026-11	DIODE 1T261	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	

DELAY LINE

Ref.No	Part No	Description	Remark
DL301	1-415-330-00	DELAY LINE, Y	
DL302	1-415-185-12	DELAY LINE (1H)	

IC

Ref.No	Part No	Description	Remark
IC001	8-759-600-63	IC CX519-004P	
IC002	8-759-600-66	IC M58653P	
IC003	8-759-171-05	IC UPC7805H	
IC101	8-759-800-12	IC LA7920	
IC102	8-759-276-07	IC TA7607AP	
IC201	8-759-909-54	IC TDA2546A	
IC204	8-759-140-53	IC UPD4053BC	
IC205	8-759-145-58	IC UPC4558C	
IC206	8-759-276-30	IC TA7630P	
IC207	8-759-800-15	IC LA4440R	
IC301	8-759-113-65	IC UPC1365C	

COIL

Ref.No	Part No	Description	Remark
L101	1-408-623-00	MICRO INDUCTOR 470UH	
L102	1-404-476-00	COIL, IF	
L105	1-408-593-00	MICRO INDUCTOR 1.5UH	
L107	1-404-427-00	VIFT	
L108	1-404-427-00	VIFT	
L109	1-408-600-00	MICRO INDUCTOR 5.6UH	
L110	1-408-600-00	MICRO INDUCTOR 5.6UH	
L201	1-404-477-00	COIL, IF	
L202	1-404-476-00	COIL, IF	
L203	1-408-597-00	MICRO INDUCTOR 3.3UH	
L204	1-408-600-00	MICRO INDUCTOR 5.6UH	
L205	1-404-477-00	COIL, IF	
L206	1-408-947-00	MICRO INDUCTOR 2.2MMH	
L301	1-408-605-00	MICRO INDUCTOR 15UH	
L303	1-408-600-00	MICRO INDUCTOR 5.6UH	
L304	1-408-942-00	MICRO INDUCTOR 3.3MMH	
L305	1-408-607-00	MICRO INDUCTOR 22UH	
L306	1-408-602-00	MICRO INDUCTOR 8.2UH	
L307	1-408-607-00	MICRO INDUCTOR 22UH	
L308	1-408-602-00	MICRO INDUCTOR 8.2UH	
L309	1-408-603-00	MICRO INDUCTOR 10UH	
L310	1-408-243-00	MICRO INDUCTOR 12MMH	
L311	1-408-603-00	MICRO INDUCTOR 10UH	
L312	1-408-608-00	MICRO INDUCTOR 27UH	

TRANSISTOR

Ref.No	Part No	Description	Remark
Q001	8-729-603-50	TRANSISTOR 2SC403SP	
Q002	8-729-245-83	TRANSISTOR 2SC2458	
Q003	8-729-245-83	TRANSISTOR 2SC2458	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q101	8-729-245-83	TRANSISTOR 2SC2458	
Q102	8-765-300-00	TRANSISTOR 2SC2009	
Q201	8-729-245-83	TRANSISTOR 2SC2458	
Q202	8-729-117-54	TRANSISTOR 2SA1175	
Q203	8-729-245-83	TRANSISTOR 2SC2458	
Q204	8-729-245-83	TRANSISTOR 2SC2458	
Q205	8-729-245-83	TRANSISTOR 2SC2458	
Q206	8-729-245-83	TRANSISTOR 2SC2458	
Q207	8-729-245-83	TRANSISTOR 2SC2458	
Q208	8-729-900-89	TRANSISTOR DTC144ES	
Q209	8-729-900-89	TRANSISTOR DTC144ES	
Q210	8-729-900-89	TRANSISTOR DTC144ES	
Q301	8-729-245-83	TRANSISTOR 2SC2458	
Q302	8-729-245-83	TRANSISTOR 2SC2458	
Q303	8-729-117-54	TRANSISTOR 2SA1175	
Q304	8-729-117-54	TRANSISTOR 2SA1175	
Q305	8-729-245-83	TRANSISTOR 2SC2458	
Q306	8-729-245-83	TRANSISTOR 2SC2458	
Q307	8-729-117-54	TRANSISTOR 2SA1175	
Q308	8-729-245-83	TRANSISTOR 2SC2458	
Q309	8-769-200-36	TRANSISTOR 2SK107-3	
Q310	8-729-245-83	TRANSISTOR 2SC2458	
Q311	8-729-117-54	TRANSISTOR 2SA1175	
Q312	8-729-245-83	TRANSISTOR 2SC2458	
Q313	8-729-117-54	TRANSISTOR 2SA1175	
Q314	8-729-245-83	TRANSISTOR 2SC2458	
Q315	8-729-245-83	TRANSISTOR 2SC2458	

RESISTOR

Ref.No	Part No	Description				Remark
R001	1-247-831-00	CARBON	1K	5%	1/6W	
R002	1-247-841-00	CARBON	2.7K	5%	1/6W	
R003	1-247-831-00	CARBON	1K	5%	1/6W	
R004	1-247-841-00	CARBON	2.7K	5%	1/6W	
R005	1-247-857-00	CARBON	12K	5%	1/6W	
R006	1-247-871-00	CARBON	47K	5%	1/6W	
R007	1-247-863-00	CARBON	22K	5%	1/6W	
R008	1-247-863-00	CARBON	22K	5%	1/6W	
R011	1-247-831-00	CARBON	1K	5%	1/6W	
R012	1-247-863-00	CARBON	22K	5%	1/6W	
R013	1-247-863-00	CARBON	22K	5%	1/6W	
R014	1-247-847-00	CARBON	4.7K	5%	1/6W	
R015	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R016	1-247-863-00	CARBON	22K	5%	1/6W	
R017	1-247-863-00	CARBON	22K	5%	1/6W	
R018	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R019	1-247-863-00	CARBON	22K	5%	1/6W	
R020	1-247-839-00	CARBON	2.2K	5%	1/6W	
R021	1-247-863-00	CARBON	22K	5%	1/6W	
R022	1-247-871-00	CARBON	47K	5%	1/6W	
R023	1-247-875-00	CARBON	68K	5%	1/6W	
R024	1-247-863-00	CARBON	22K	5%	1/6W	
R025	1-247-871-00	CARBON	47K	5%	1/6W	
R026	1-247-847-00	CARBON	4.7K	5%	1/6W	
R027	1-247-855-00	CARBON	10K	5%	1/6W	
R028	1-247-855-00	CARBON	10K	5%	1/6W	
R029	1-247-871-00	CARBON	47K	5%	1/6W	
R030	1-247-859-00	CARBON	15K	5%	1/6W	
R031	1-247-871-00	CARBON	47K	5%	1/6W	
R032	1-247-847-00	CARBON	4.7K	5%	1/6W	
R034	1-247-871-00	CARBON	47K	5%	1/6W	
R038	1-247-831-00	CARBON	1K	5%	1/6W	
R039	1-247-831-00	CARBON	1K	5%	1/6W	
R040	1-247-831-00	CARBON	1K	5%	1/6W	
R044	1-247-815-00	CARBON	220	5%	1/6W	
R045	1-247-815-00	CARBON	220	5%	1/6W	
R046	1-247-815-00	CARBON	220	5%	1/6W	
R047	1-247-815-00	CARBON	220	5%	1/6W	
R048	1-247-815-00	CARBON	220	5%	1/6W	
R049	1-247-815-00	CARBON	220	5%	1/6W	
R050	1-247-815-00	CARBON	220	5%	1/6W	
R051	1-247-799-00	CARBON	47	5%	1/6W	
R052	1-247-799-00	CARBON	47	5%	1/6W	
R053	1-247-799-00	CARBON	47	5%	1/6W	
R054	1-247-831-00	CARBON	1K	5%	1/6W	
R055	1-247-831-00	CARBON	1K	5%	1/6W	
R056	1-247-119-00	CARBON	330	5%	1/4W	F
R101	1-247-839-00	CARBON	2.2K	5%	1/6W	
R102	1-247-839-00	CARBON	2.2K	5%	1/6W	
R104	1-247-891-00	CARBON	330K	5%	1/6W	
R105	1-247-843-00	CARBON	3.3K	5%	1/6W	
R106	1-247-867-00	CARBON	33K	5%	1/6W	
R107	1-247-881-00	CARBON	120K	5%	1/6W	
R109	1-247-847-00	CARBON	4.7K	5%	1/6W	
R110	1-247-845-00	CARBON	3.9K	5%	1/6W	
R111	1-247-827-00	CARBON	680	5%	1/6W	
R112	1-247-823-00	CARBON	470	5%	1/6W	
R113	1-247-815-00	CARBON	220	5%	1/6W	
R114	1-247-837-00	CARBON	1.8K	5%	1/6W	
R115	1-247-841-00	CARBON	2.7K	5%	1/6W	
R116	1-247-783-00	CARBON	10	5%	1/6W	
R117	1-247-835-00	CARBON	1.5K	5%	1/6W	
R118	1-247-901-00	CARBON	820K	5%	1/6W	
R119	1-247-821-00	CARBON	390	5%	1/6W	
R202	1-247-829-00	CARBON	820	5%	1/6W	
R203	1-247-829-00	CARBON	820	5%	1/6W	
R204	1-247-829-00	CARBON	820	5%	1/6W	
R205	1-247-863-00	CARBON	22K	5%	1/6W	
R206	1-247-847-00	CARBON	4.7K	5%	1/6W	
R207	1-247-877-00	CARBON	82K	5%	1/6W	
R208	1-247-831-00	CARBON	1K	5%	1/6W	
R209	1-247-869-00	CARBON	39K	5%	1/6W	
R211	1-247-839-00	CARBON	2.2K	5%	1/6W	
R215	1-247-839-00	CARBON	2.2K	5%	1/6W	
R216	1-247-865-00	CARBON	27K	5%	1/6W	
R217	1-247-863-00	CARBON	22K	5%	1/6W	
R219	1-247-879-00	CARBON	100K	5%	1/6W	
R220	1-247-879-00	CARBON	100K	5%	1/6W	
R221	1-247-879-00	CARBON	100K	5%	1/6W	
R212	1-247-871-00	CARBON	47K	5%	1/6W	
R213	1-247-819-00	CARBON	330	5%	1/6W	
R214	1-247-819-00	CARBON	330	5%	1/6W	
R222	1-247-879-00	CARBON	100K	5%	1/6W	
R223	1-247-831-00	CARBON	1K	5%	1/6W	
R224	1-247-831-00	CARBON	1K	5%	1/6W	
R225	1-247-831-00	CARBON	1K	5%	1/6W	
R226	1-247-831-00	CARBON	1K	5%	1/6W	
R227	1-247-863-00	CARBON	22K	5%	1/6W	

Ref.No	Part No	Description				Remark
R228	1-247-823-00	CARBON	470	5%	1/8W	F
R308	1-247-831-00	CARBON	1K	5%	1/6W	
R309	1-247-867-00	CARBON	33K	5%	1/6W	
R310	1-247-871-00	CARBON	47K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R303	1-247-821-00	CARBON	390	5%	1/6W	
R304	1-247-819-00	CARBON	330	5%	1/6W	
R305	1-247-863-00	CARBON	22K	5%	1/6W	
R306	1-247-851-00	CARBON	6.8K	5%	1/6W	
R307	1-247-833-00	CARBON	1.2K	5%	1/6W	
R308	1-247-831-00	CARBON	1K	5%	1/6W	
R309	1-247-867-00	CARBON	33K	5%	1/6W	
R310	1-247-871-00	CARBON	47K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R312	1-247-813-00	CARBON	180	5%	1/6W	
R313	1-247-831-00	CARBON	1K	5%	1/6W	
R314	1-247-799-00	CARBON	47	5%	1/6W	
R316	1-247-855-00	CARBON	10K	5%	1/6W	
R317	1-247-818-00	CARBON	300	5%	1/6W	
R318	1-247-859-00	CARBON	15K	5%	1/6W	
R319	1-247-835-00	CARBON	1.5K	5%	1/6W	
R320	1-247-831-00	CARBON	1K	5%	1/6W	
R321	1-247-831-00	CARBON	1K	5%	1/6W	
R322	1-247-821-00	CARBON	390	5%	1/6W	
R324	1-247-831-00	CARBON	1K	5%	1/6W	
R325	1-247-831-00	CARBON	1K	5%	1/6W	
R326	1-247-833-00	CARBON	1.2K	5%	1/6W	
R327	1-247-835-00	CARBON	1.5K	5%	1/6W	
R328	1-247-835-00	CARBON	1.5K	5%	1/6W	
R329	1-247-831-00	CARBON	1K	5%	1/6W	
R330	1-247-829-00	CARBON	820	5%	1/6W	
R331	1-247-865-00	CARBON	27K	5%	1/6W	
R332	1-247-865-00	CARBON	27K	5%	1/5W	
R333	1-247-839-00	CARBON	2.2K	5%	1/6W	
R334	1-247-815-00	CARBON	220	5%	1/6W	
R335	1-247-821-00	CARBON	390	5%	1/6W	
R336	1-247-815-00	CARBON	220	5%	1/6W	
R337	1-247-821-00	CARBON	390	5%	1/6W	
R338	1-247-823-00	CARBON	470	5%	1/6W	
R339	1-247-863-00	CARBON	22K	5%	1/6W	
R340	1-247-857-00	CARBON	12K	5%	1/6W	
R341	1-247-847-00	CARBON	4.7K	5%	1/6W	
R342	1-247-831-00	CARBON	1K	5%	1/6W	
R343	1-247-879-00	CARBON	100K	5%	1/6W	
R344	1-247-807-00	CARBON	100	5%	1/6W	
R345	1-247-855-00	CARBON	10K	5%	1/6W	
R346	1-247-863-00	CARBON	22K	5%	1/6W	
R347	1-247-887-00	CARBON	220K	5%	1/6W	
R348	1-247-839-00	CARBON	2.2K	5%	1/6W	
R349	1-247-851-00	CARBON	6.8K	5%	1/6W	
R350	1-247-877-00	CARBON	82K	5%	1/6W	
R351	1-247-843-00	CARBON	3.3K	5%	1/6W	
R352	1-247-831-00	CARBON	1K	5%	1/6W	

(KV2052ET only) A

Ref.No	Part No	Description				Remark
R353	1-247-851-00	CARBON	6.8K	5%	1/6W	
R229	1-247-835-00	CARBON	1.5K	5%	1/6W	
R230	1-247-835-00	CARBON	1.5K	5%	1/6W	
R231	1-247-831-00	CARBON	1K	5%	1/6W	
R232	1-247-831-00	CARBON	1K	5%	1/6W	
R238	1-247-855-00	CARBON	10K	5%	1/6W	
R239	1-247-855-00	CARBON	10K	5%	1/6W	
R240	1-247-879-00	CARBON	100K	5%	1/6W	
R241	1-247-879-00	CARBON	100K	5%	1/6W	
R242	1-247-879-00	CARBON	100K	5%	1/6W	
R243	1-247-879-00	CARBON	100K	5%	1/6W	
R244	1-247-895-00	CARBON	470K	5%	1/6W	
R246	1-247-887-00	CARBON	220K	5%	1/6W	
R247	1-247-887-00	CARBON	220K	5%	1/6W	
R248	1-247-855-00	CARBON	10K	5%	1/6W	
R249	1-247-855-00	CARBON	10K	5%	1/6W	
R250	1-247-895-00	CARBON	470K	5%	1/6W	
R251	1-247-848-00	CARBON	5.1K	5%	1/6W	
R252	1-247-838-00	CARBON	2K	5%	1/6W	
R253	1-247-877-00	CARBON	82K	5%	1/6W	
R254	1-247-855-00	CARBON	10K	5%	1/6W	
R255	1-247-855-00	CARBON	10K	5%	1/6W	
R256	1-247-839-00	CARBON	2.2K	5%	1/6W	
R257	1-247-855-00	CARBON	10K	5%	1/6W	
R258	1-247-807-00	CARBON	100	5%	1/8W	F
R259	1-247-887-00	CARBON	220K	5%	1/6W	
R260	1-247-876-00	CARBON	75K	5%	1/6W	
R261	1-247-869-00	CARBON	39K	5%	1/6W	
R262	1-247-855-00	CARBON	10K	5%	1/6W	
R263	1-247-857-00	CARBON	12K	5%	1/6W	
R264	1-247-879-00	CARBON	100K	5%	1/6W	
R265	1-247-879-00	CARBON	100K	5%	1/6W	
R266	1-247-871-00	CARBON	47K	5%	1/6W	
R270	1-247-855-00	CARBON	10K	5%	1/6W	
R271	1-247-855-00	CARBON	10K	5%	1/6W	
R272	1-247-855-00	CARBON	10K	5%	1/6W	
R273	1-247-855-00	CARBON	10K	5%	1/6W	
R274	1-247-835-00	CARBON	1.5K	5%	1/6W	
R275	1-247-887-00	CARBON	220K	5%	1/6W	
R276	1-247-887-00	CARBON	220K	5%	1/6W	
R277	1-247-855-00	CARBON	10K	5%	1/6W	
R278	1-247-855-00	CARBON	10K	5%	1/6W	
R279	1-247-825-00	CARBON	560	5%	1/6W	
R280	1-247-825-00	CARBON	560	5%	1/6W	
R281	1-247-775-00	CARBON	4.7	5%	1/6W	
R282	1-247-775-00	CARBON	4.7	5%	1/6W	
R283	1-247-871-00	CARBON	47K	5%	1/6W	
R284	1-247-847-00	CARBON	4.7K	5%	1/6W	
R285	1-247-847-00	CARBON	4.7K	5%	1/6W	
R301	1-247-805-00	CARBON	82	5%	1/6W	
R302	1-247-805-00	CARBON	82	5%	1/6W	
R306	1-247-851-00	CARBON	6.8K	5%	1/6W	
R307	1-247-833-00	CARBON	1.2K	5%	1/6W	

A

Ref.No	Part No	Description				Remark
R354	1-247-849-00	CARBON	5.6K	5%	1/6W	
R355	1-247-839-00	CARBON	2.2K	5%	1/6W	
R356	1-247-843-00	CARBON	3.3K	5%	1/6W	
R357	1-247-855-00	CARBON	10K	5%	1/6W	
R358	1-247-859-00	CARBON	15K	5%	1/6W	
R359	1-247-859-00	CARBON	15K	5%	1/6W	
R360	1-247-859-00	CARBON	15K	5%	1/6W	
R361	1-247-843-00	CARBON	3.3K	5%	1/6W	
R362	1-247-871-00	CARBON	47K	5%	1/6W	
R363	1-247-903-00	CARBON	1M	5%	1/6W	
R364	1-247-851-00	CARBON	6.8K	5%	1/6W	
R365	1-247-885-00	CARBON	180K	5%	1/6W	
R366	1-247-849-00	CARBON	5.6K	5%	1/6W	
R367	1-247-807-00	CARBON	100	5%	1/6W	
R368	1-247-819-00	CARBON	330	5%	1/6W	
R369	1-247-819-00	CARBON	330	5%	1/6W	
R370	1-247-819-00	CARBON	330	5%	1/6W	
R371	1-247-843-00	CARBON	3.3K	5%	1/6W	
R372	1-247-843-00	CARBON	3.3K	5%	1/6W	
R373	1-247-843-00	CARBON	3.3K	5%	1/6W	
R377	1-247-871-00	CARBON	47K	5%	1/6W	
R378	1-247-839-00	CARBON	2.2K	5%	1/6W	
R379	1-247-839-00	CARBON	2.2K	5%	1/6W	
R380	1-247-841-00	CARBON	2.7K	5%	1/6W	
R381	1-247-831-00	CARBON	1K	5%	1/6W	
R382	1-247-828-00	CARBON	750	5%	1/6W	
R383	1-247-831-00	CARBON	1K	5%	1/6W	

VARIABLE ERSISTOR

RV101	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV201	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K
RV202	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K
RV301	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV302	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV303	1-228-719-00	RES, ADJ, CERAMIC CARBON 470
RV304	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K
RV305	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV306	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K

FILTER

SF101	1-404-438-00	FILTER, SAW
SF201▲:	4-362-287-00	SHIELD, SAWF

TRANSFORMER

T301	1-426-121-00	DAT

TUNER

TU101⚠	1-463-411-00	TUNER, UHF/VHF ET (UV411)

CRYSTAL

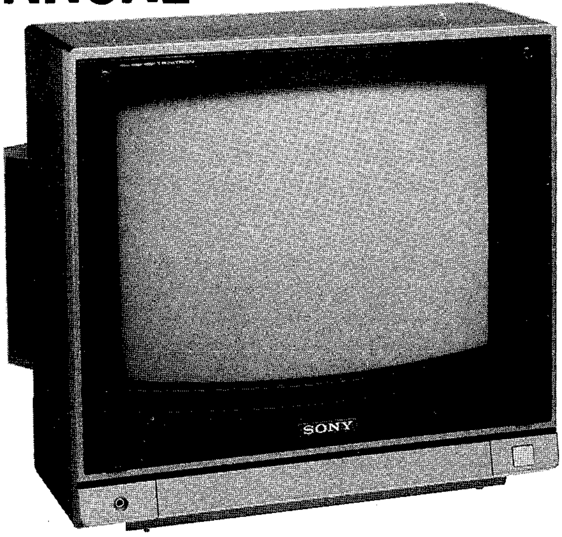
X301	1-527-588-21	OSCILLATOR, CRYSTAL

KV-2052EC
RM-635

SERVICE MANUAL

AEP Model

Chassis No. SCC-445C-A



July, 1983

XE-2 CHASSIS

SPECIFICATIONS

Television system	CCIR TV standards (system B, G and H)
Color system	PAL
Zweiton system	Two-carrier system
Channel coverage	VHF channels E2–U20 UHF channels E21–E68
Programing system	30 programs Automatic programing digital tuning
Picture tube	Approx. 52 cm (20 inches) 100-degree deflection Trinitron system (Approx. 49 cm screen measured diagonally
Antenna	75-ohm standard antenna socket (DIN45325/IEC169-2)
Audio output	5 W + 5 W (with 10% harmonic distortion)
Inputs	AV connector (6-pin DIN) Video input: 1.0V p-p, impedance 75 ohms, sync negative Audio input: 0.1–2 Vrms impedance more than 10 kilohms
Outputs	AV connector (6-pin DIN) Video output: 1.0 V p-p, impedance 75 ohms, sync negative Audio output: 0.1–2 Vrms impedance less than 1 kilohm Audio output connector (5-pin DIN) Recording output: 1 mVrms/kilohm Line output: variable, 0–2 Vrms (max.) impedance less than 1 kilohm External speaker terminals (2-pin DIN) For 4–8 ohm speakers Headphones jack (stereo phone jack)
Power requirements	220–240 V ac, 50 Hz
Power consumption	105 W (Approx. 11 W in standby condition)
Dimensions	Approx. 522 × 502 × 513 mm (w/h/d)
Weight	Approx. 31 kg (68 lb 6 oz)
Accessory supplied	Remote Commander RM-635

Optional accessories

OPK-103 teletext adaptor
OPK-102 SECAM adaptor
VMC-366 video monitor cable (6-pin to 6-pin)
VMC-368 video monitor cable (6-pin to 8-pin)
RK-140 connecting cord (6-pin to BNC and phono)
OPK-203 teletext adaptor

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOUR TV

SONY®

CTV

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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REMOTE COMMANDER RM-635 61

SECTION 1
GENERAL

1-1. WARNING

To prevent fire or shock hazard, do not expose the set to rain or moisture.

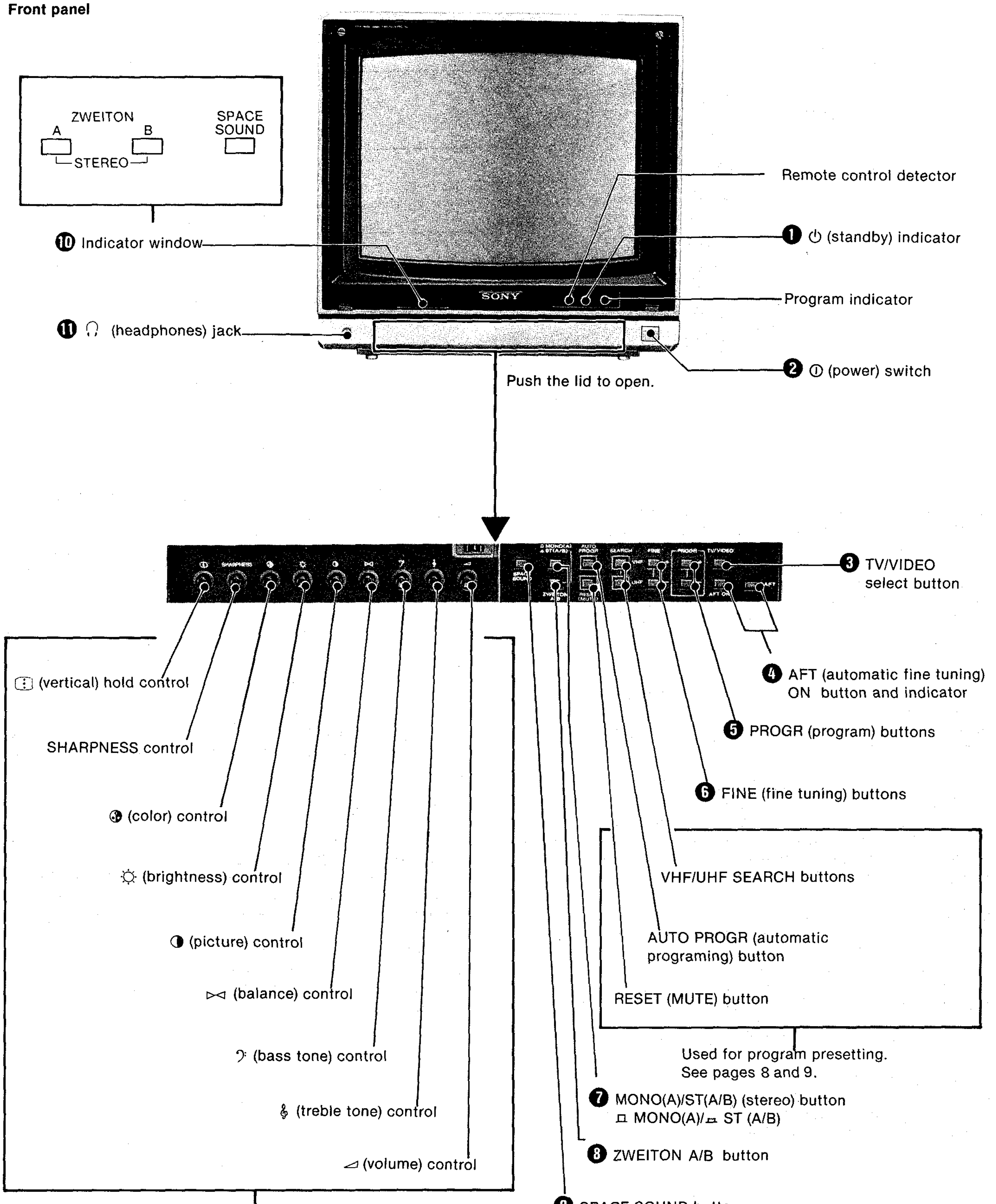
Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

1-2. FEATURES

- Remote control color television with a multi-function Remote Commander
- Reception of all VHF and UHF channels based on CCIR TV standards and PAL color system
- Easy and stable tuning of up to 30 programs
- Two convenient systems of program presetting: automatic programing and manual programing
- Built-in Zweiton decoder for stereo sound and dual-sound program reception in West Germany
- Energy-saving quick start picture system
- Smoked glass over the screen for a glare-free picture with optimum contrast
- An optional OPK-103 teletext adaptor can be installed in the KV-2052EC. (For installation, consult your nearest Sony dealer.)
- SECAM color signals from East Germany can be received by installing an optional OPK-102 SECAM adaptor. (For installation, consult your nearest Sony dealer.)

1-3. LOCATION AND FUNCTION OF CONTROLS

Front panel



⑩ Indicator window

⑪ ∩ (headphones) jack

Remote control detector

❶ ⏻ (standby) indicator

Program indicator

❷ ⏀ (power) switch

Push the lid to open.

❸ TV/VIDEO select button

❹ AFT (automatic fine tuning) ON button and indicator

❺ PROGR (program) buttons

❻ FINE (fine tuning) buttons

VHF/UHF SEARCH buttons

AUTO PROGR (automatic programing) button

RESET (MUTE) button

Used for program presetting.
See pages 8 and 9.

❼ MONO(A)/ST(A/B) (stereo) button
⊓ MONO(A)/⊔ ST (A/B)

❽ ZWEITON A/B button

❾ SPACE SOUND button

(vertical) hold control

SHARPNESS control

(color) control

☼ (brightness) control

◑ (picture) control

⋈ (balance) control

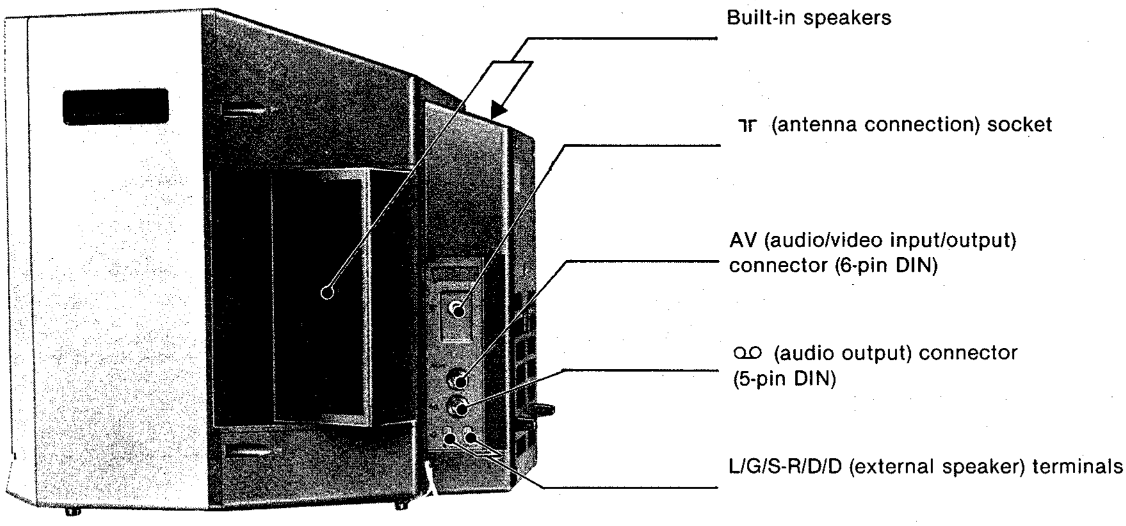
𝄢 (bass tone) control

𝄞 (treble tone) control

◁ (volume) control

See page 11.

Rear panel


Built-in speakers
ㄱr (antenna connection) socket
AV (audio/video input/output) connector (6-pin DIN)
ꝏ (audio output) connector (5-pin DIN)
L/G/S-R/D/D (external speaker) terminals

❶ ⏻ (standby) indicator
Lights up when the TV is turned off with the Remote Commander. When any of the buttons on the Remote Commander is pressed, this lamp blinks.

❷ ⏼ (power) switch
Press to turn the TV on. Press again to turn it off. When this switch is turned off, you cannot turn the power on with the supplied Remote Commander.

❸ TV/VIDEO select button
When playing back a video tape recorder without a 6-pin DIN connector, press this button so that "*AU*" lights in the program indicator. When playing back a recorder equipped with a 6-pin DIN connector, the video mode is automatically selected.

❹ AFT (automatic fine tuning) ON button and indicator
The AFT circuit activates automatically after the stations are tuned and memorized in automatic and manual programing.
The indicator will illuminate. In case you want to restore the AFT on the channel which has been fine-tuned manually with the FINE buttons press the AFT ON button.

❺ PROGR (program) buttons
Press either + or – to select a preset program from positions 1 through 30. The selected program number will appear on the program indicator. Note that program 30 is "0" on the program indicator. Press + for higher-numbered programs, and – for lower-numbered programs. Programs will be changed continuously in sequence. If there is annoying noise at an unused program position, eliminate it by pressing the RESET (MUTE) button.

❻ FINE (fine tuning) buttons
Keep either + or – depressed to get a clear picture for each unsatisfactory channel. The automatic fine-tuning circuit will be automatically deactivated on the channel fine-tuned with these buttons.

❼ MONO(A)/ST(A/B) (stereo) button ⊓ MONO(A) ⌓ ST(A/B)
Normally set this button to the depressed ST(A/B) position. Stereo programs and dual-sound program can be received.
When this button is not depressed, MONO(A) position, stereo programs wil be monaural and only channel A of a dual-sound program will be received.

❽ ZWEITON A/B button
When the ST(A/B) is pushed in, dual-sound programs can be received. Select the language to be listened to — A or B — by pressing the ZWEITON A/B button.

❾ SPACE SOUND button
Press to get special acoustic effects (for example, more presence). The SPACE SOUND indicator willl illuminate. To disengage, press it again.

❿ Indicator window

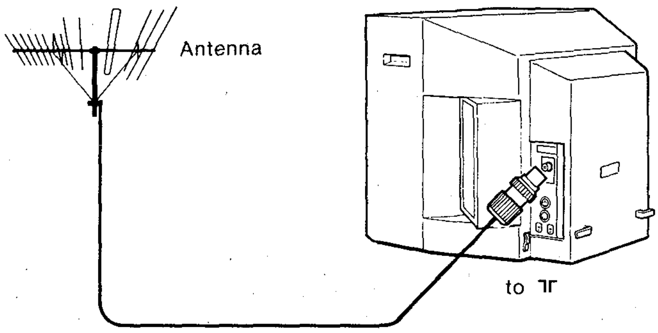
ⓐ SPACE SOUND indicator
ⓑ ZWEITON STEREO indicators
When a dual-sound program is received while the ST(A/B) button is pressed, A or B will light up. When a stereo program is received while the ST(A/B) button is pressed, A and B indicators will light up.

⓫ ∩ (headphones) jack
Connect headphones here. Speaker sound will be disconnected. If your headphones' plug does not fit the jack, use an optional plug adaptor.

1-4. CONNECTIONS

ANTENNA CONNECTION

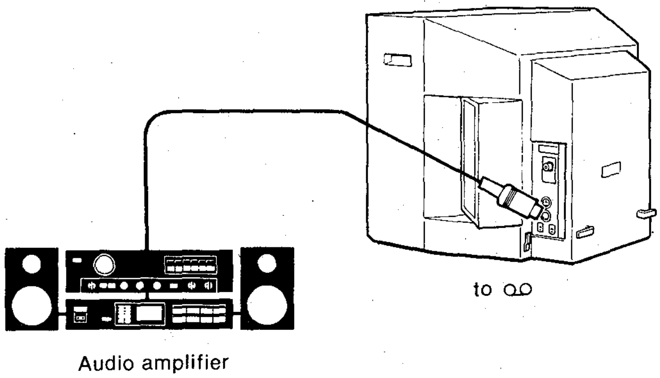
Good picture and sound are obtained when a proper antenna is used. Your TV receiver is equipped with a standard antenna connection socket, which is effective for both VHF and UHF reception. Use a coaxial antenna connection cable equipped with a single plug, and insert the plug into the ⅂Γ (antenna connection) socket of your TV.



When a video tape recorder is to be connected to the ⅂Γ socket of the TV, connect an antenna to the recorder, as explained in "To enjoy video tape playback".

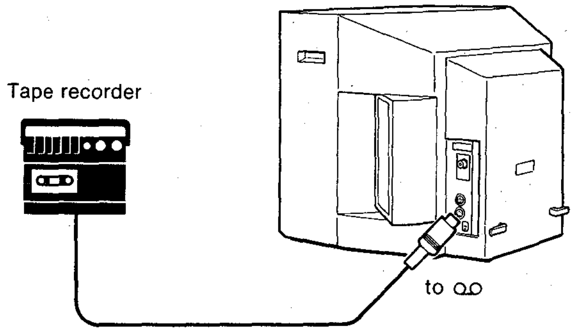
CONNECTION WITH AN AMPLIFIER

If you connect your stereo amplifier to the ꝏ connector (5-pin DIN) using a suitable connecting cord, you can listen to the TV sound from the speakers of your audio system. The sound control settings on the TV and the Remote Commander will be operable.



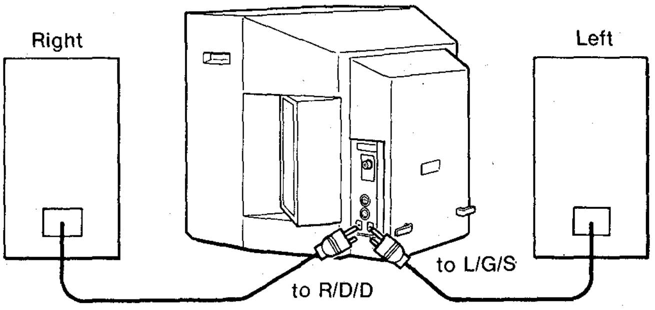
CONNECTION WITH A TAPE RECORDER

If you connect a tape recorder to the ꝏ connector (5-pin DIN) using a suitable connecting cord, you can record the TV sound. In this case, the sound control settings on the TV and the Remote Commander have no effect on the recording.



CONNECTION WITH EXTERNAL SPEAKERS

Connect external speakers to the speaker terminals on the rear of the TV.



For further details, refer to the instructions furnished with the speakers.

Notes

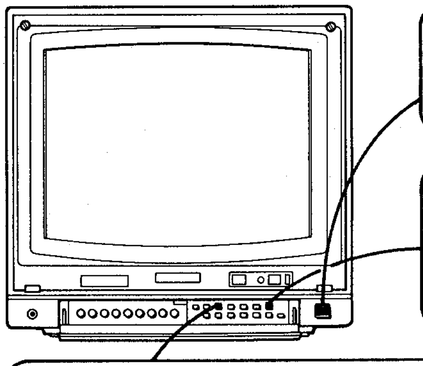
- Keep the speaker system away from the TV, as the magnets in the speakers may affect the TV screen.
- Never connect a speaker system to an amplifier and this TV simultaneously, as this may damage the TV.

1-5. PROGRAM PRESETTING

This TV has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGR buttons on the TV or the hand-held Remote Commander.
Preset programs by following one of these procedures; automatic programing or manual programing.

AUTOMATIC PROGRAMING

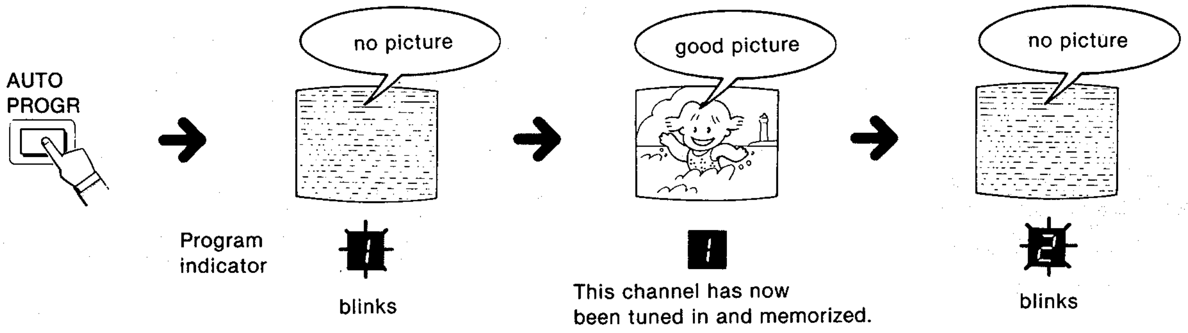
With the automatic programing system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.
If a channel you wish to preset is not strong enough to be preset with the automatic programing system, use the manual programing.



1 **Depress ⏻ to turn on the TV.**

2 **Check that the TV is in the TV mode.**
If AU lights in the program indicator, press the TV/VIDEO select button.

3 **Press AUTO PROGR.**
Automatic programing will begin.
The first channel found will be memorized on program position 1, the second on position 2, and so on.



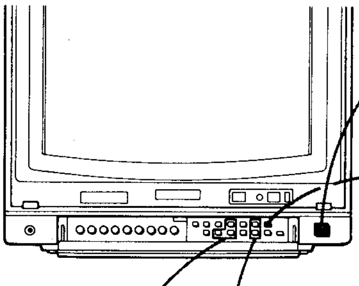
This tuning-memorizing sequence will be repeated for each channel in your area. When no more channels can be found, automatic programing will stop, and the program preset on the first program position will appear on the TV screen. The number "1" will light (not blink) on the program indicator.

After presetting has been completed, press the PROGR buttons to check the results of the automatic programing, referring to your local TV listings.

To cancel automatic programing while it is in progress, press the RESET (MUTE) button or the + or − PROGR button.

MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in a desired sequence.
Any channel can be set to any program position. Consult your local TV listings to find out the active channels in your area. Make a list of your desired VHF and UHF channels and arrange them in a desired sequence.

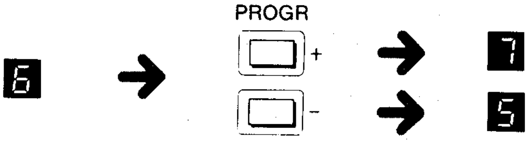


1 **Depress ⏻ to turn on the TV.**

2 **Check that the TV is in the TV mode.**
If AU lights in the program indicator, press the TV/VIDEO select button.

3 **Press the + or – PROGR button to select the number of the program position to which the channel is to be preset.**

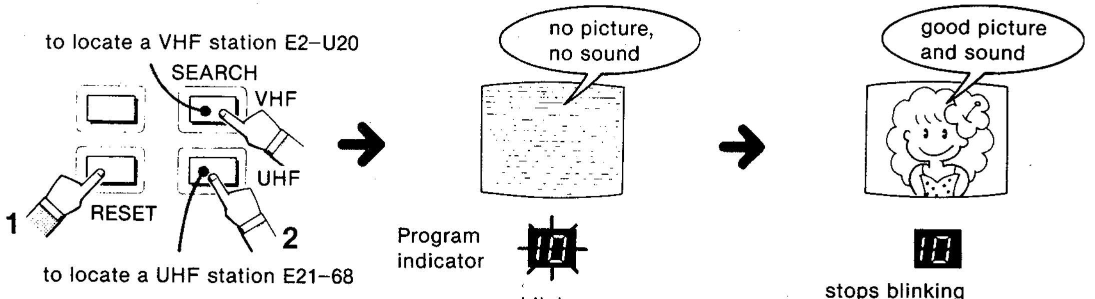
for higher-numbered program position



The number selected appears in the program indicator.

for lower-numbered program position

4 **Press the RESET (MUTE) button and then the VHF or UHF SEARCH button.**
The first channel found will be tuned. Every time you press the SEARCH button, a higher-numbered channel is located, so press the button until the desired station is received.


to locate a VHF station E2–U20
SEARCH
VHF
UHF
1
RESET
2
to locate a UHF station E21–68
no picture, no sound
good picture and sound
Program indicator
10
blinks
10

stops blinking
This channel has now been tuned in and memorized.

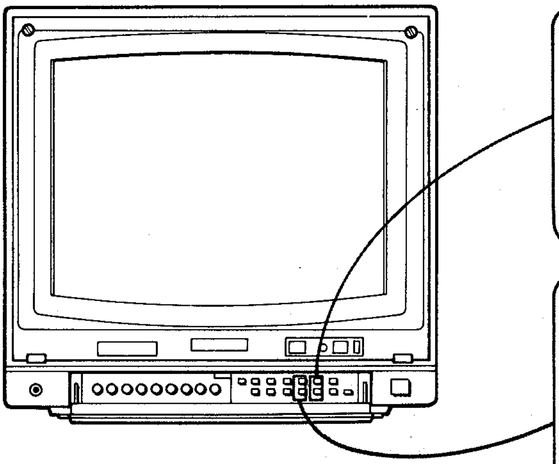
- In strong signal areas, tuning may sometimes stop between channels. If this happens, just press the VHF or UHF SEARCH button again.

Repeat steps **3** and **4** for all the desired channels.

RESET (MUTE) button
If this button is pressed, the set will be automatically tuned to a frequency below channel E2.
If you want to skip a particular program position when scanning with the PROGR buttons on the Remote Commander, press the RESET (MUTE) button when the indicator shows that position.

FINE-TUNING OF A WEAK STATION

If you cannot obtain a clear picture on a particular channel, fine-tune that station manually with the FINE buttons.



1

Select the channel to be fine-tuned with the PROGR buttons.

2

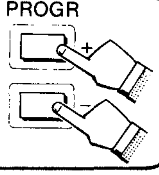
Keep the + or − FINE button pressed until a clear picture is obtained.

When either of the FINE buttons is pressed, the AFT (automatic fine tuning) on the selected channel is deactivated and the AFT indicator turns off. To view the fine-tuned station, keep the AFT deactivated (do not press the AFT ON button).
When other memorized stations are selected, the AFT activates automatically.

1-6. BASIC OPERATION ON THE PANEL

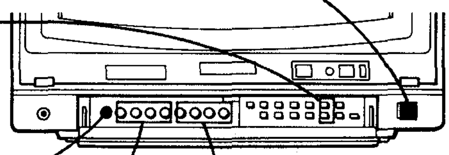
1 **Depress Ⓘ to turn on the TV.**

2 **Select the desired TV program.**



for higher-numbered programs

for lower-numbered programs



If the picture rolls vertically

3 **Adjust the picture condition.**

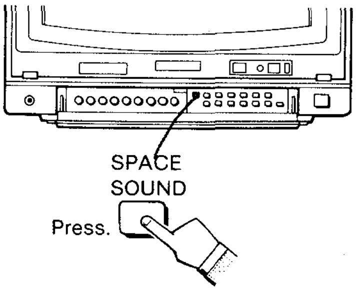
	SHARPNESS	
for less sharpness		for more sharpness
for less color		for more color
for less brightness	☼	for more brightness
to decrease the picture contrast	◑	to increase the picture contrast

4 **Adjust the sound condition.**

to decrease the volume		to increase the volume
for less treble	𝄞	for more treble
for less bass	𝄢	for more bass
to emphasize the left speaker's sound	⋈	to emphasize the right speaker's sound

If you use an external Hi-Fi speaker system, you will find that the bass is emphasized with the 𝄢 control at the center detent position. This is because this TV has a built-in low boost circuit. In this case, turn the 𝄢 control counterclockwise.

To get special acoustic effects



Press again to disengage it.

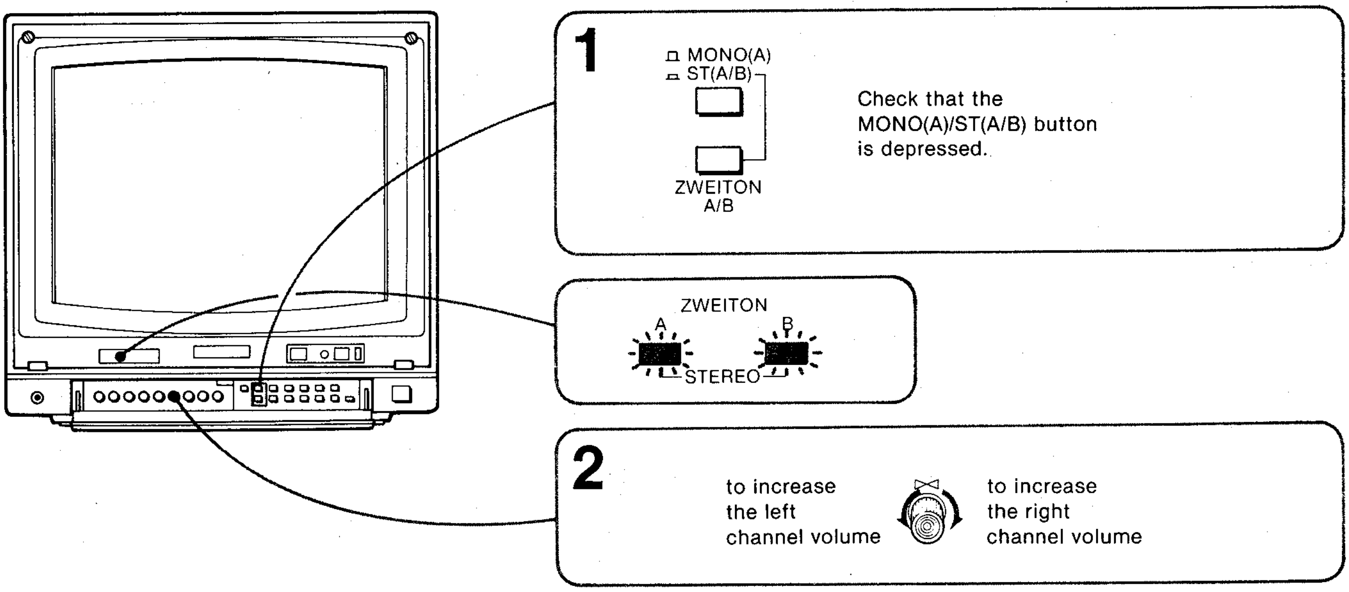
This switch is especially effective when listening to music or a sports program. For instance, when you are listening to a piano concerto, the piano will be clearly heard from the center, and the orchestra, reverberation and applause will be heard as "surround" sounds.

1-7. TO ENJOY STEREO AND DUAL-SOUND PROGRAMS

Check that the MONO(A)/ST(A/B) button is in the depressed ST(A/B) position.

When a stereo program is received, STEREO indicators light up.
The TV automatically operates in the stereo mode when a stereo program is received.

If necessary, adjust the stereo balance with the ▷◁ control to obtain the optimum stereo effect.

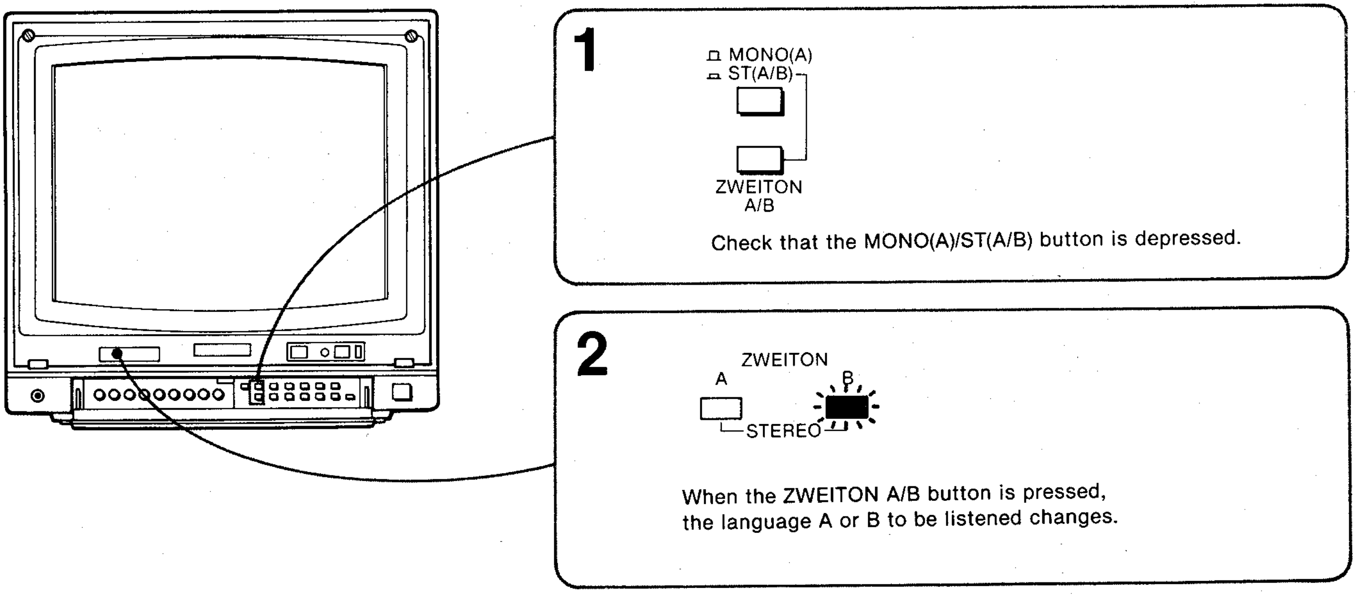


1 Check that the MONO(A)/ST(A/B) button is depressed.

2 to increase the left channel volume — to increase the right channel volume

Check that the MONO(A)/ST(A/B) button is in the depressed ST(A/B) position.

When a dual-sound(bilingual) program is received, either A or B indicator lights up.
Select the local language (usually broadcast on channel A) or the original language (usually broadcast on channel B) by pressing the ZWEITON A/B button on the TV or the A/B button on the Remote Commander.



1 Check that the MONO(A)/ST(A/B) button is depressed.

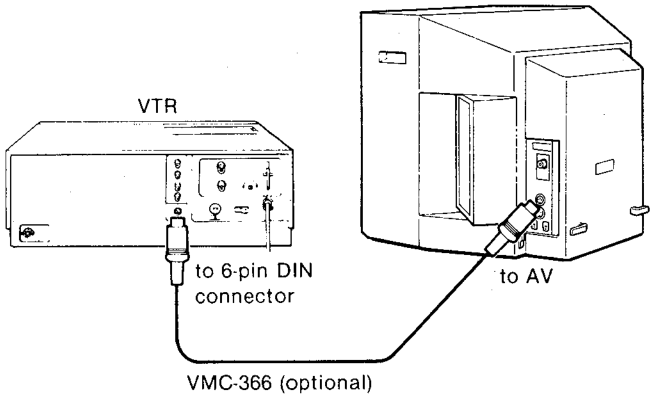
2 When the ZWEITON A/B button is pressed, the language A or B to be listened changes.

1-8. TO ENJOY VIDEO TAPE PLAYBACK

USING THE AV CONNECTOR (6-PIN DIN)

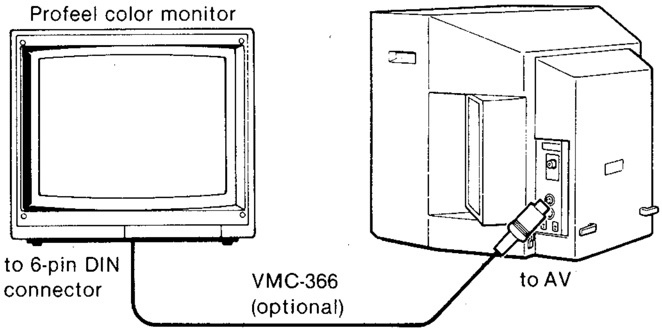
With a recorder equipped with a 6-pin DIN connector

Connection


VTR
to 6-pin DIN connector
to AV
VMC-366 (optional)

Operation
Turn on the TV and the recorder. When the recorder is set into the playback mode, the TV will be set into the video mode automatically and the playback picture will appear on the TV screen.

With a color monitor

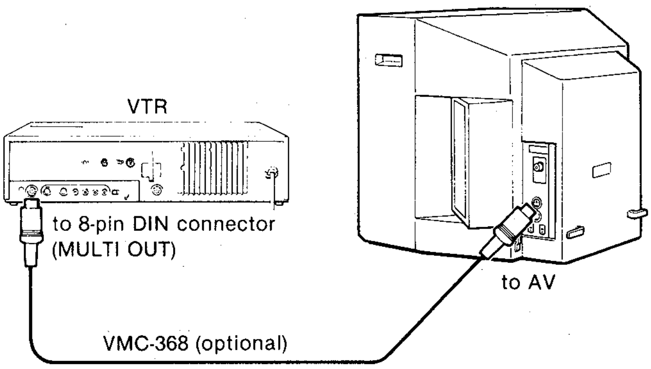

Profeel color monitor
to 6-pin DIN connector
VMC-366 (optional)
to AV

(Optional VMC-368 to 8-pin DIN connector)

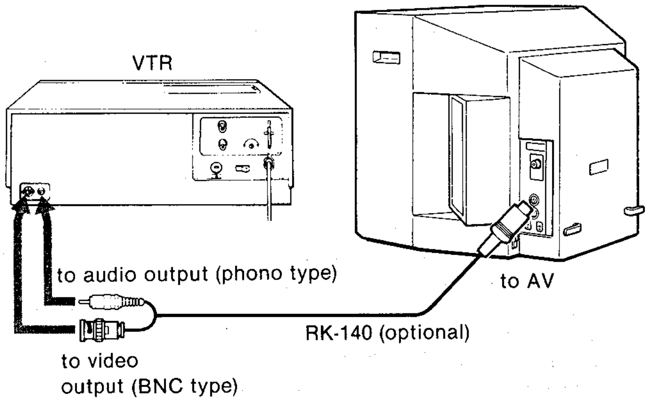
It is possible to view the same TV program on the monitor connected to the AV.

With a recorder without a 6-pin DIN connector

Connection
Example 1:


VTR
to 8-pin DIN connector (MULTI OUT)
to AV
VMC-368 (optional)

Example 2:

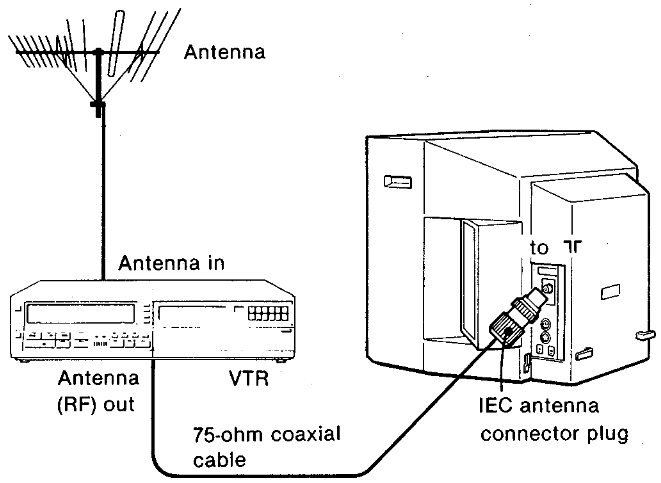

VTR
to audio output (phono type)
to AV
RK-140 (optional)
to video output (BNC type)

Operation
Turn on the TV and the recorder. Press the TV/VIDEO select button on the TV or the VIDEO button on the Remote Commander so that AU lights in the program indicator. The TV is then set into the video mode. Play the tape back.

USING THE ANTENNA CONNECTION SOCKET

With a recorder equipped with an RF modulator

Connection



Keep a VTR away from the TV, if the display or sound is affected.

Operation

Preset one of the program positions of the TV to the output signal of the recorder as follows.

1 Turn on the TV and recorder.

2 Be sure that the TV is in the TV mode.

3 Set the TEST SIGNAL switch to ON if equipped with your recorder, or apply the output signal of the recorder to the TV by setting the recorder into the playback mode.

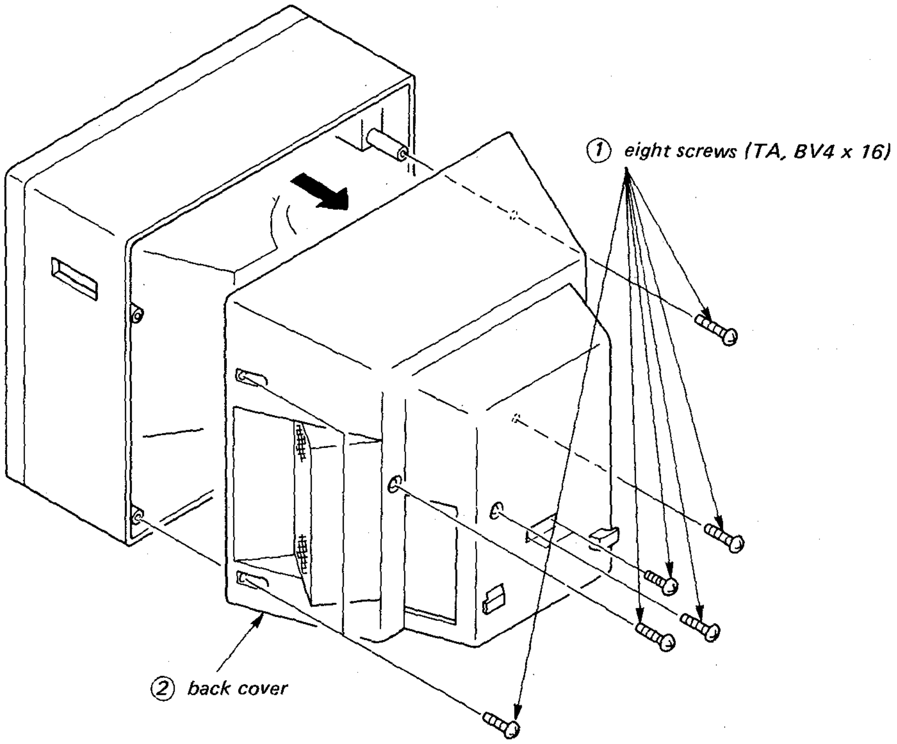
4 Select the program position to be set for the recorder with the PROGR buttons.

5 Push either of the SEARCH buttons. When the recorder output signal is found and memorized, the playback picture of the recorder will appear on the screen.

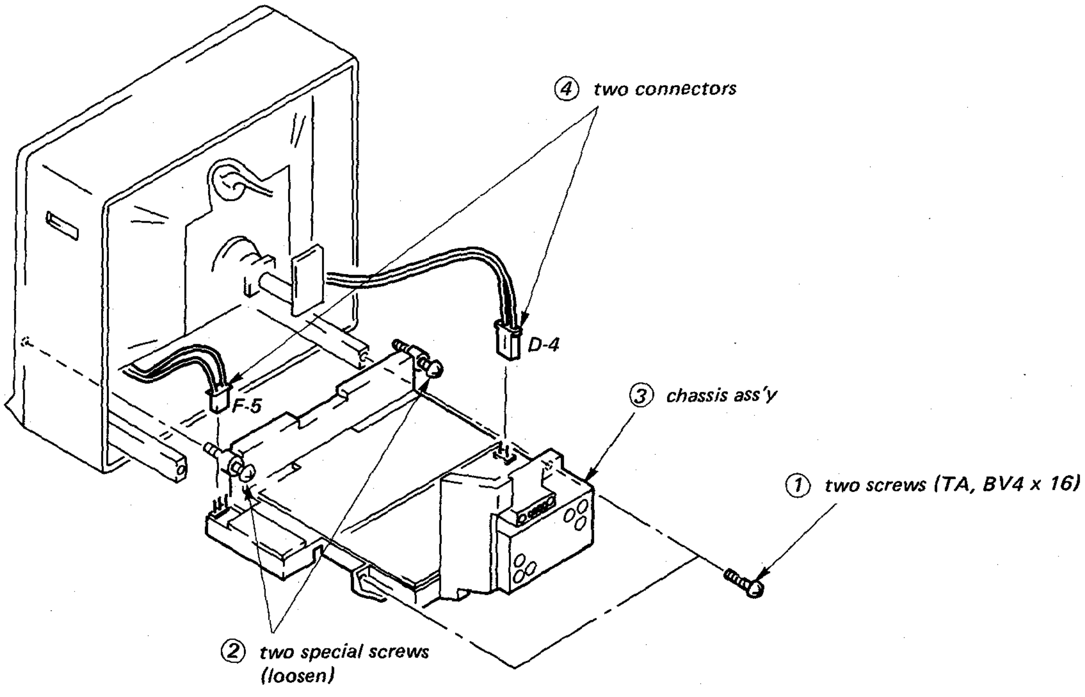
For operation of the recorder, refer to the instruction manual of the recorder.

SECTION 2
DISASSEMBLY AND REPLACEMENT

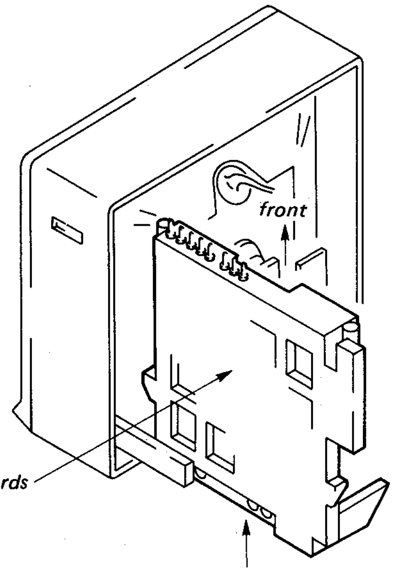
2-1. BACK COVER ASS'Y REMOVAL


① eight screws (TA, BV4 x 16)
② back cover

2-2. CHECKING FOR A AND D BOARDS UP (1) (CHASSIS ASS'Y REMOVAL)

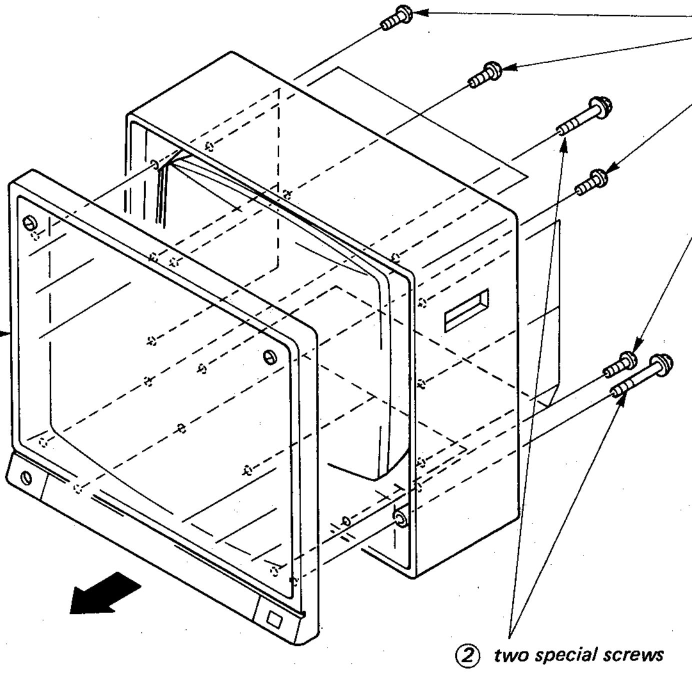

④ two connectors
D-4
F-5
③ chassis ass'y
① two screws (TA, BV4 x 16)
② two special screws (loosen)

2-3. CHECKING FOR A AND D BOARDS UP (2)

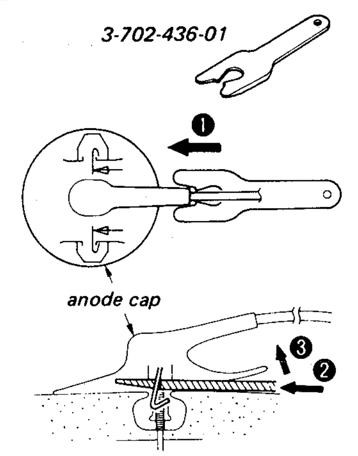

front
A and D boards
G board block

Check the A and D boards so that the G board block is on the bottom.

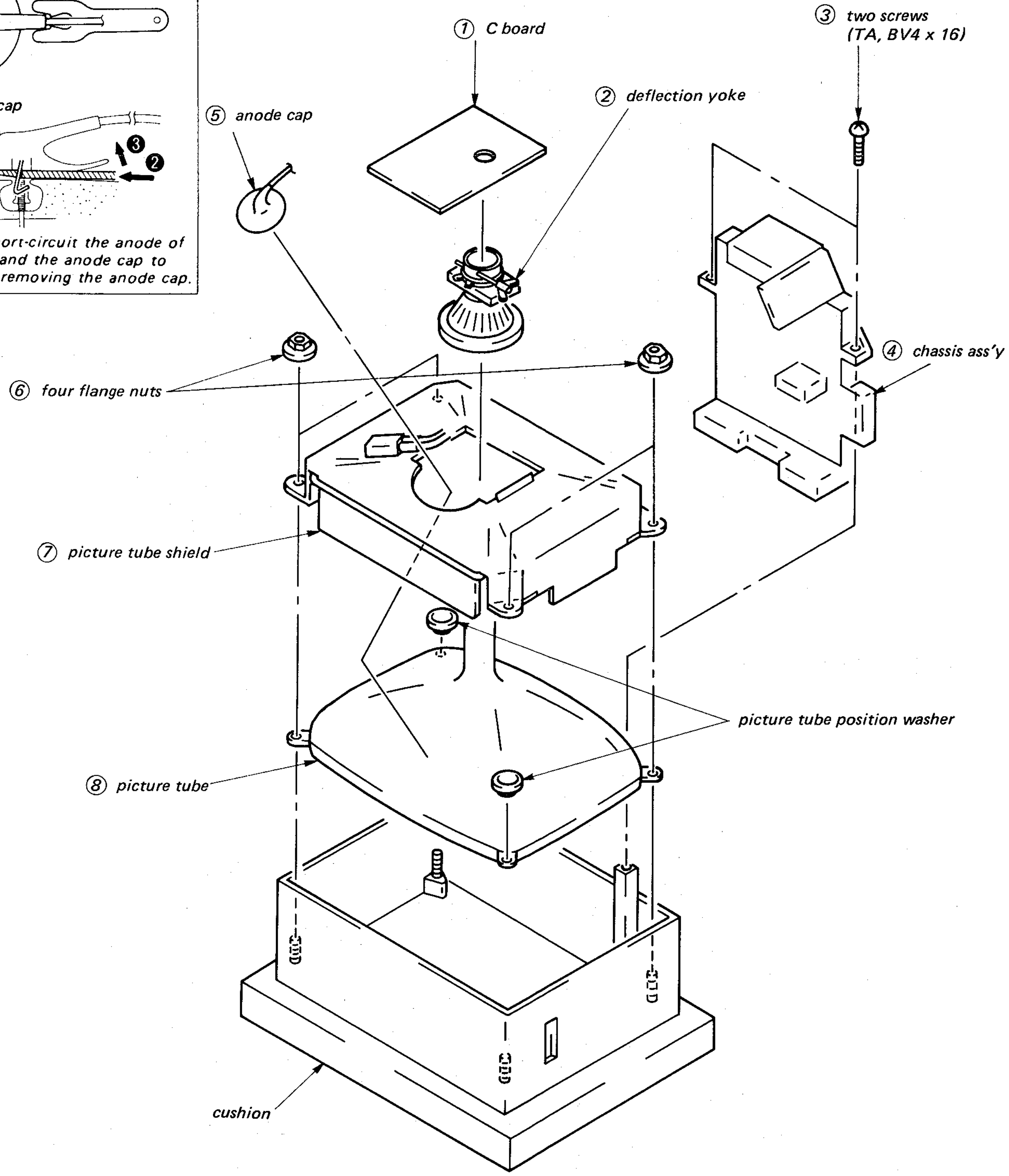
2-4. BEZEL ASS'Y REMOVAL


① four screws
(TA, BV4 x 16)
③ bezel ass'y
② two special screws

2-5. PICTURE TUBE REMOVAL


3-702-436-01
❶
anode cap
❸
❷

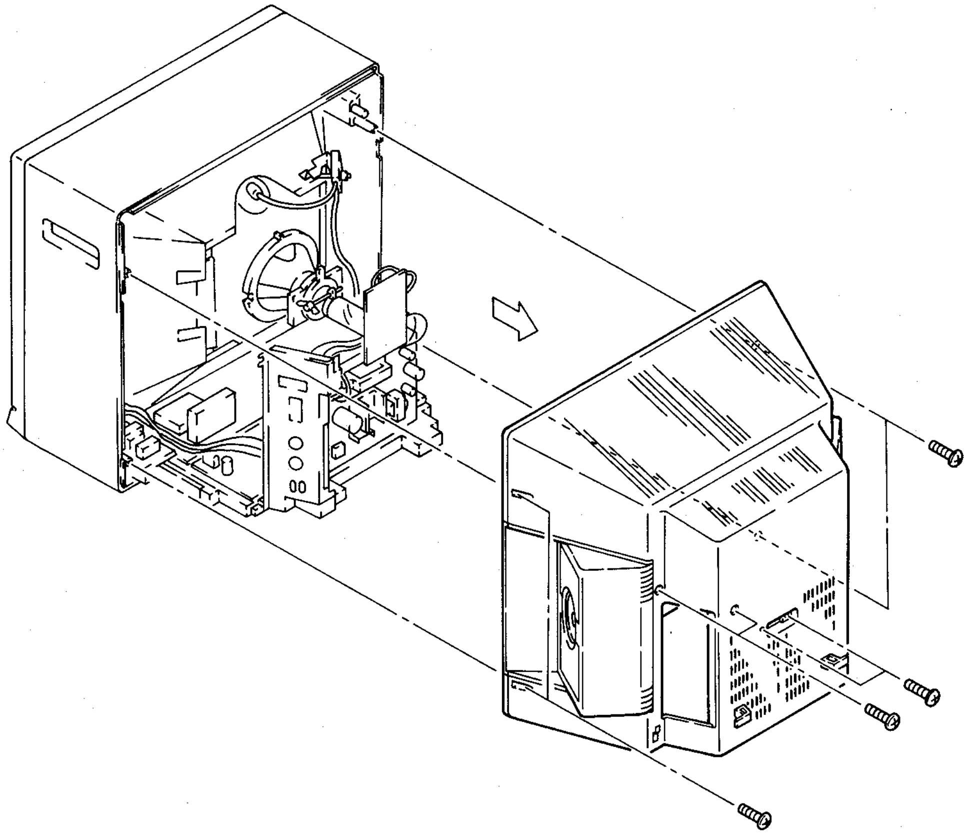
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.


① C board
③ two screws (TA, BV4 x 16)
② deflection yoke
⑤ anode cap
④ chassis ass'y
⑥ four flange nuts
⑦ picture tube shield
picture tube position washer
⑧ picture tube
cushion

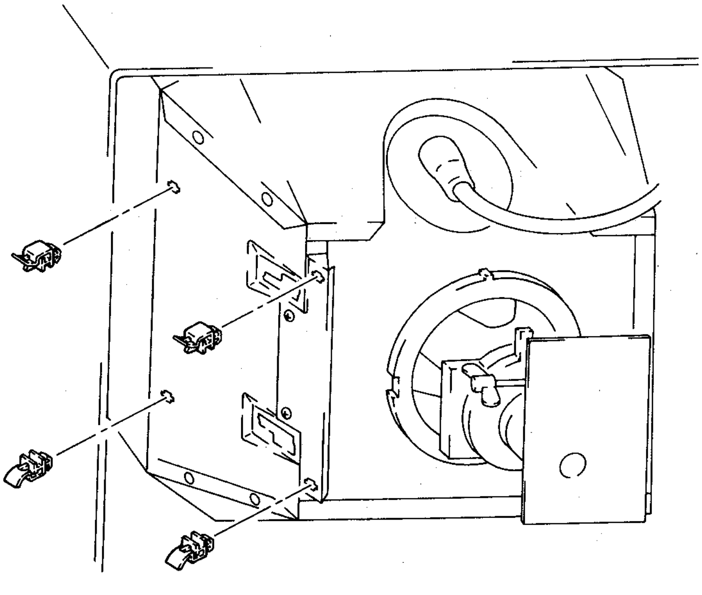
2-6. OPK-103 BOARD ATTACHING

- Before installing the OPK-103B/103G/103S, unplug the set from the wall outlet.
- After the installation is completed, check that the TV operates properly.

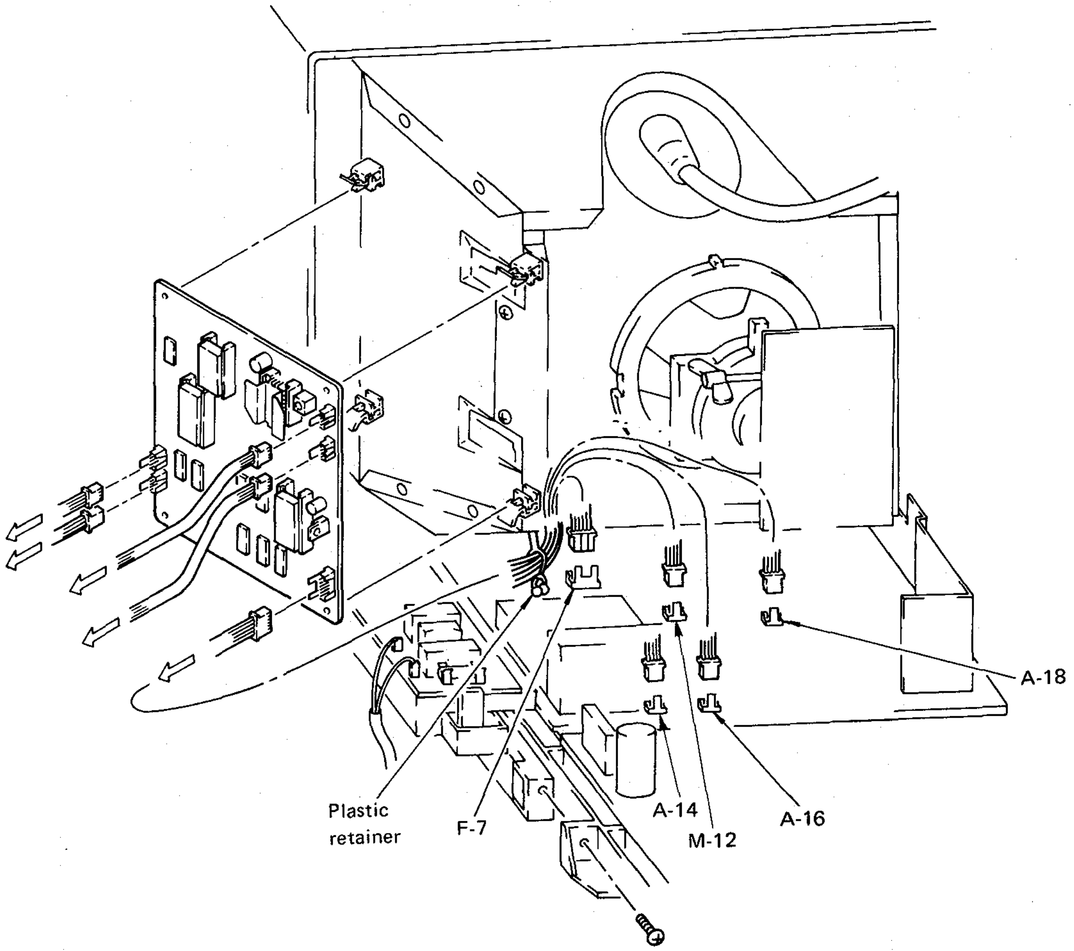
1. Remove the back cover.



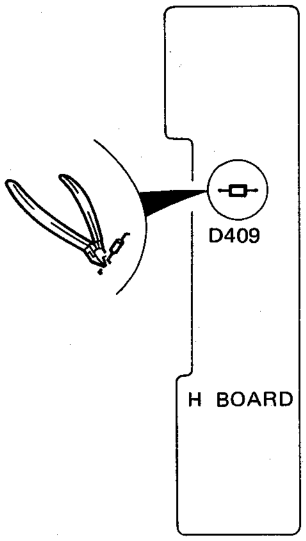
2. Attach the four plastic retainers with their projections toward the inside.

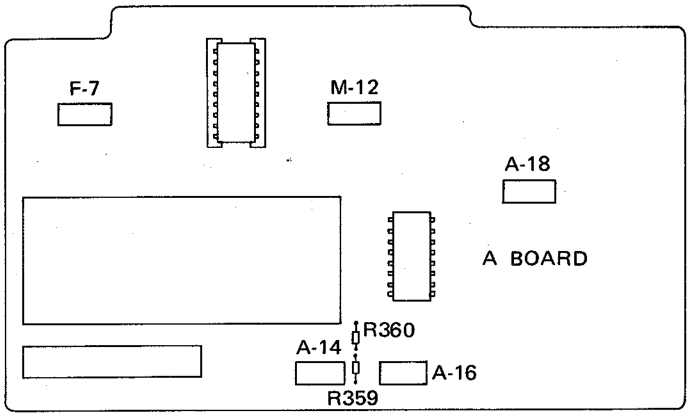


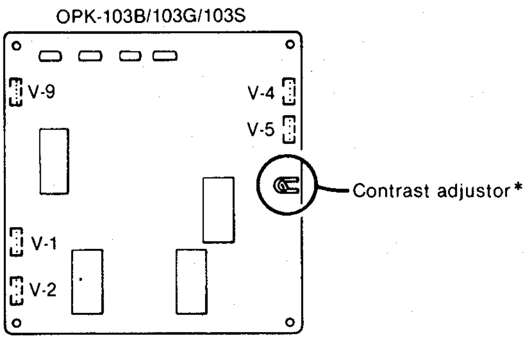
3. Attach the OPK-103B/103G/103S to the retainers and pull out the main chassis ass'y.


A-18
Plastic retainer
F-7
A-14
M-12
A-16

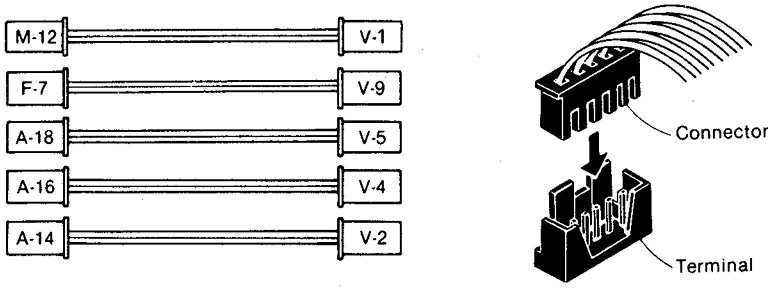
4. Change the resistance value of R359 and R360 (R359 10K, R360 6.8K).
5. Connect the printed wiring board A and the OPK-103B/103G/103S referring to "Connecting the cable".
6. Cut out the D409 of the H board.
7. Bundle the cords with the cord clamp.
8. Attach the rear panel.


D409
H BOARD


F-7
M-12
A-18
A BOARD
R360
A-14
A-16
R359


OPK-103B/103G/103S
V-9
V-4
V-5
V-1
V-2
Contrast adjustor*

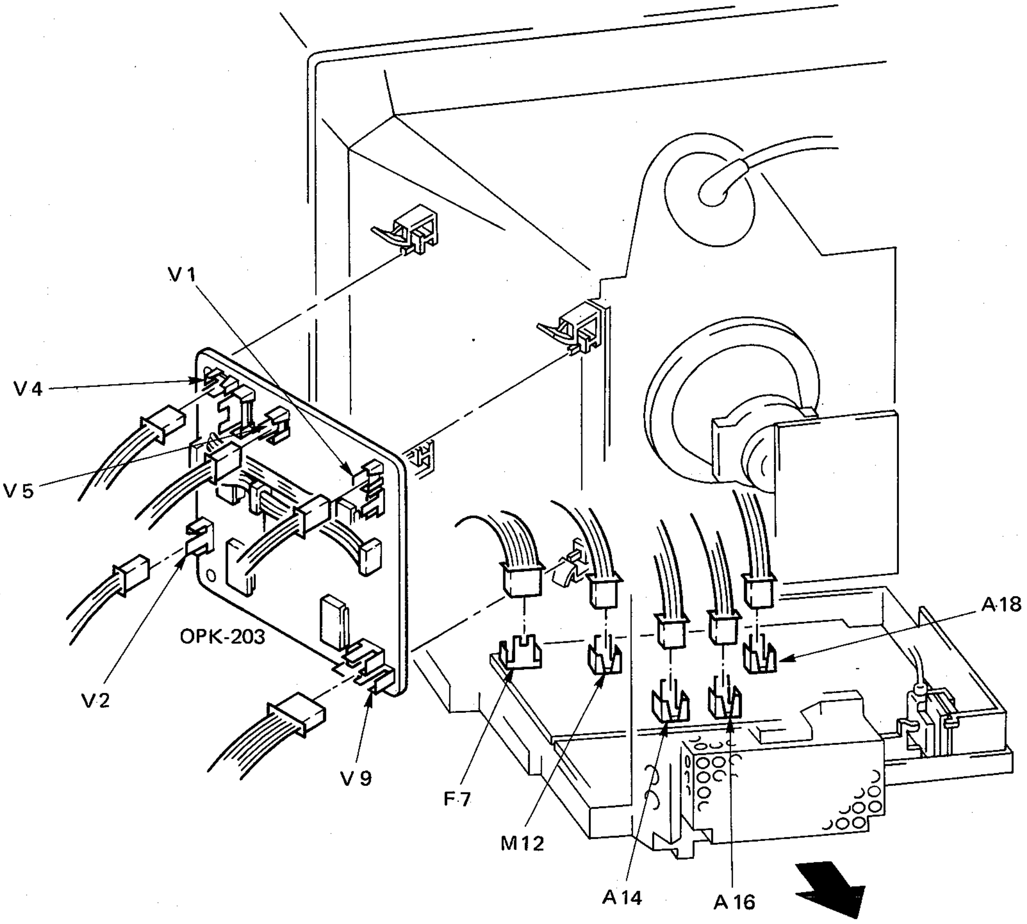
Connect to the same number terminal as the connector. Connected terminals are coloured red.


M-12
V-1
F-7
V-9
A-18
V-5
A-16
V-4
A-14
V-2
Connector
Terminal

* This adjusts the picture contrast.
After connecting the cable, turn on the power and adjust the picture contrast by using the screw driver.

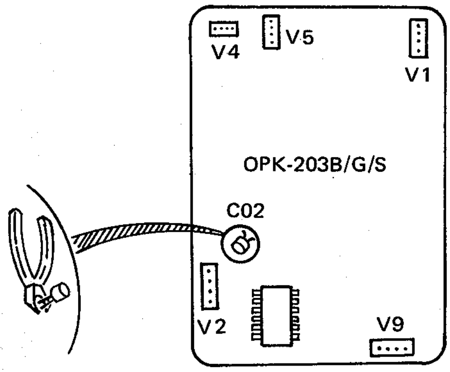
2-7. OPK-203 BOARD ATTACHING

1. Refer to the "OPK-103 BOARD ATTACHING" Step 1, 2.
2. Attach the OPK-203 to the retainers and pull out the main chassis ass'y.



V1
V4
V5
OPK-203
V2
V9
F7
M12
A14
A16
A18

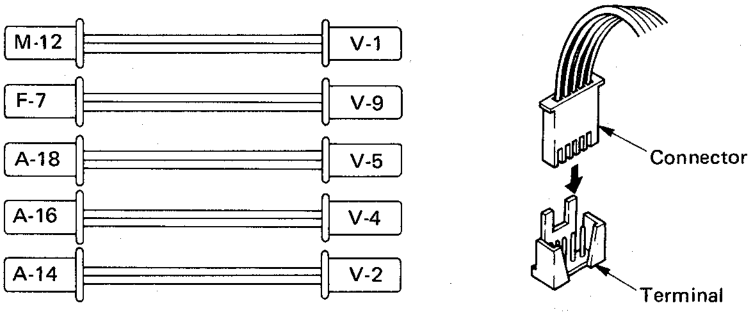
3. Cut off C02 using a nipper as shown in the figure.

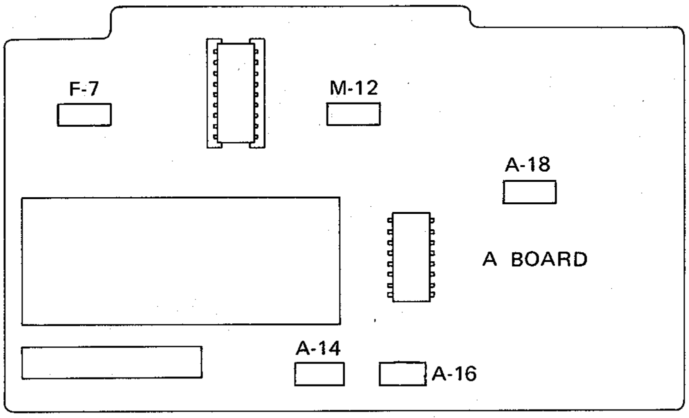


V4
V5
V1
OPK-203B/G/S
C02
V2
V9

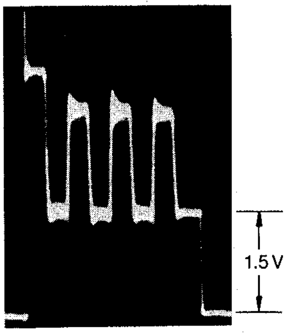
4. Connect the printed wiring board A and the OPK-203B/G/S referring to "connecting the cable".

Connect to the same number terminal as the connector. Connected terminals are coloured red.


M-12
V-1
F-7
V-9
A-18
V-5
A-16
V-4
A-14
V-2
Connector
Terminal


F-7
M-12
A-18
A BOARD
A-14
A-16

5. ADJUSTMENT
- Set the ◑ (picture) control of the minimum and ☼ (brightness) control of the mechanical center, and adjust the black color-level of the picture signals to 1.5V (RV304).

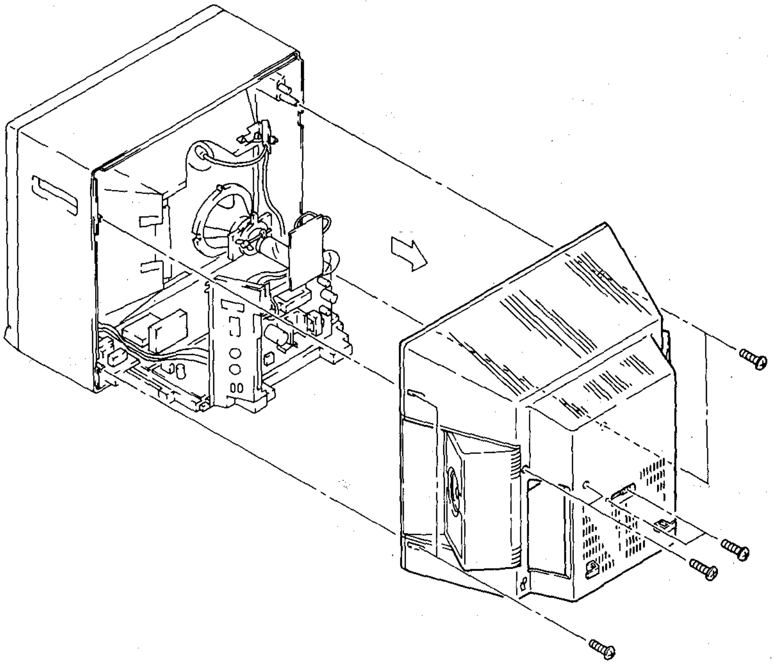


6. Bundle the cords with the cord clamp.
7. Attach the rear panel.

2-8. OPK-102 BOARD ATTACHING

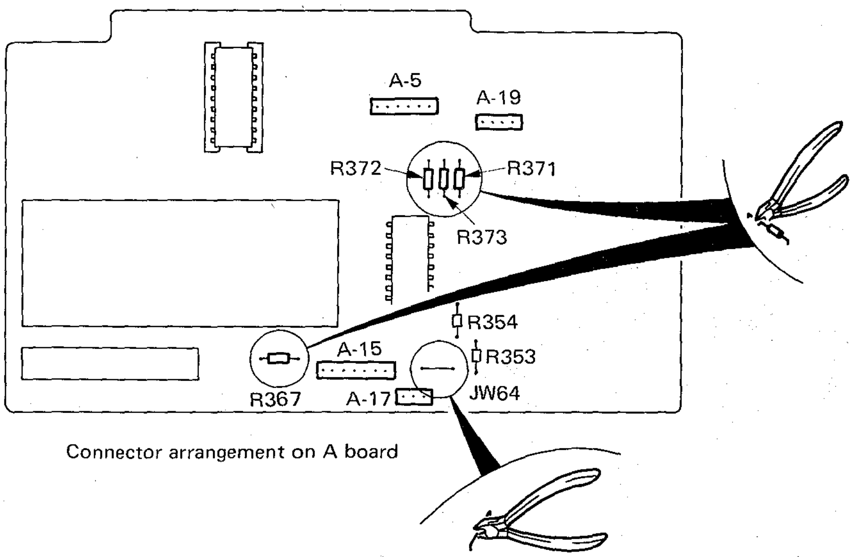
Before installing OPK-102 unplug the set from the wall outlet.
After the installation is completes, check that the TV operates properly.

1. Remove the back cover.



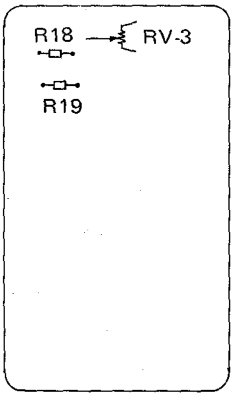
2. A BOARD REMODELING
   - Cut off R371, R372, R373 and R367 using a nipper as shown in the figure.
   - Cut off the jumper (JW64) using a nipper as shown in the figure.
   - Change the resistance value of R353 and R354 (R353 3.9K, R354 8.2K).

3. OPK-102 change the resistance
   - Change the resistance value of RV-3, R18 and R19. (RV-3 470K-B, R18 470K, R19 15K)



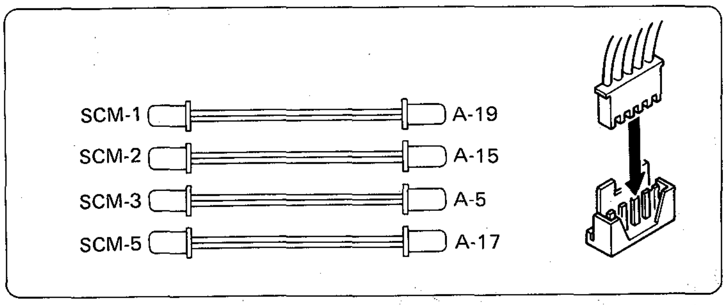
Connector arrangement on A board

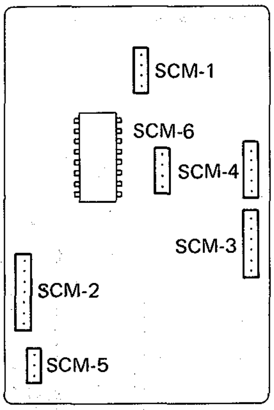
OPK-102 conductor side



4. CONNECTOR CONNECTING

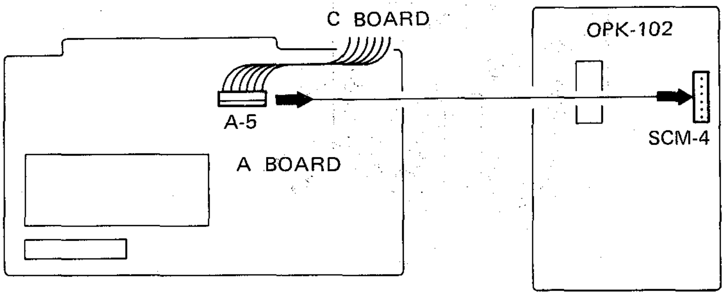
- Connect the other end of the harness connected to the OPK-102 board to each connector on the A and C boards, respectively, as shown in the figure below.
(Refer to the connector arrangement on the A, C and OPK-102 boards.)


SCM-1
A-19
SCM-2
A-15
SCM-3
A-5
SCM-5
A-17


SCM-1
SCM-6
SCM-4
SCM-3
SCM-2
SCM-5

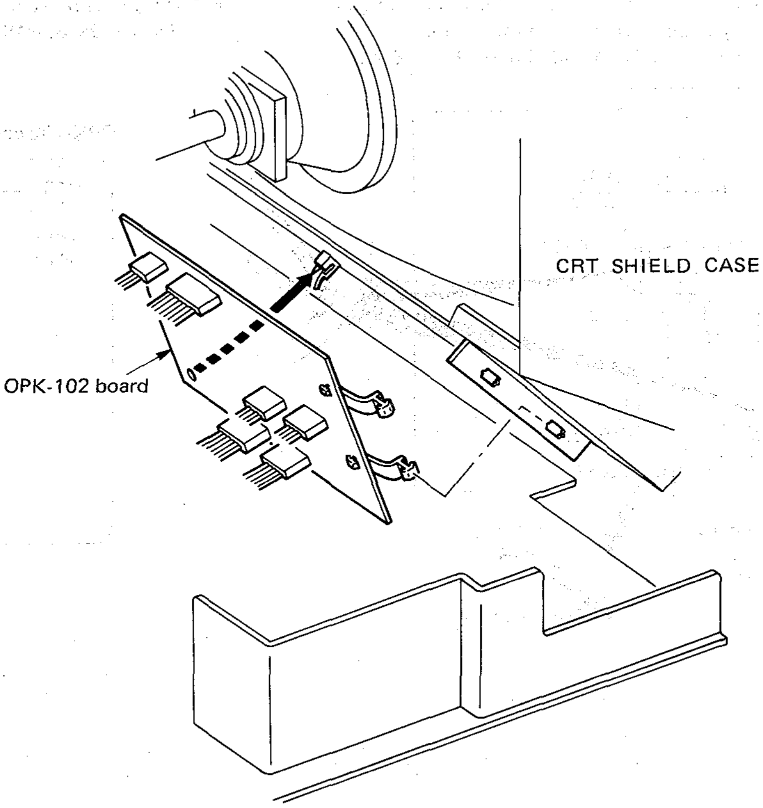
Connector arrangement on OPK-102 board.

Disconnect and connect to SCM-4


C BOARD
A-5
A BOARD
OPK-102
SCM-4

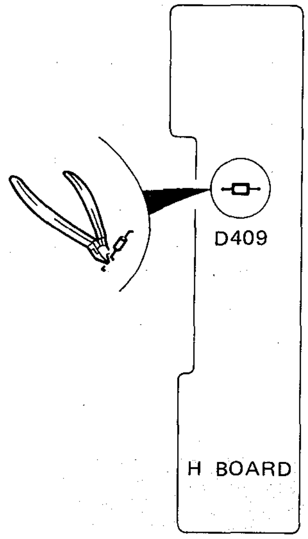
5. OPK-102 BOARD MOUNTING.

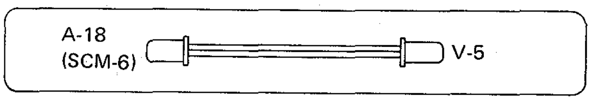
- Fix the OPK-102 board as shown in the figure.

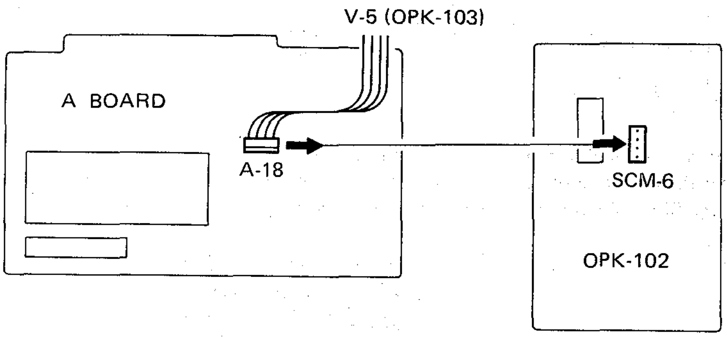

CRT SHIELD CASE
OPK-102 board

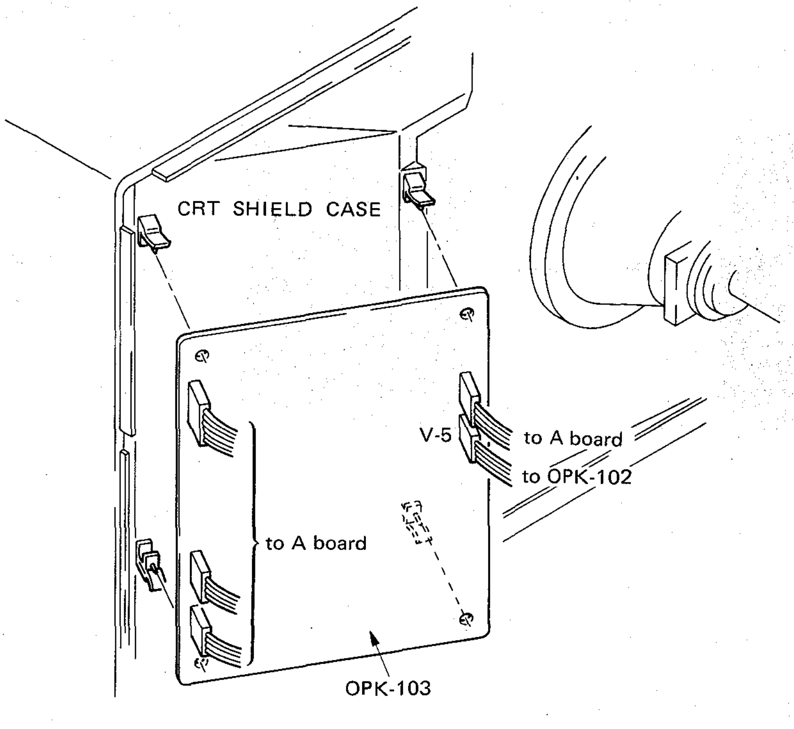
2-9. OPK-102 AND OPK-103, 203 BOTH BOARDS ATTACHING

- Cut off D409 (H board) using a nipper as shown in the figure.
- Connect the other end of the harness connected to the OPK-103, 203 board to each connector on the OPK-102 and A boards respectively, as shown in the figure below.


D409
H BOARD



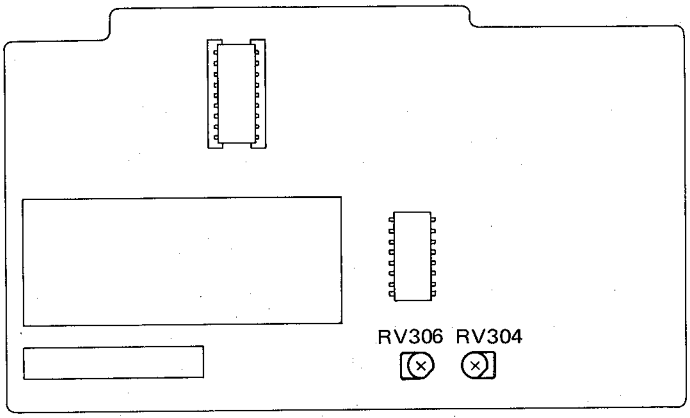

V-5 (OPK-103)
A BOARD
A-18
SCM-6
OPK-102

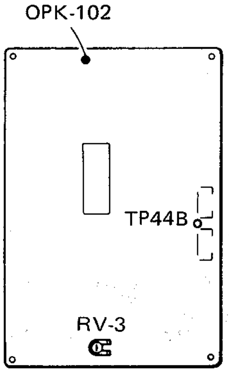

CRT SHIELD CASE
V-5
to A board
to OPK-102
to A board
OPK-103

Refer to OPK-103 board attaching.

2-10. ADJUSTMENT

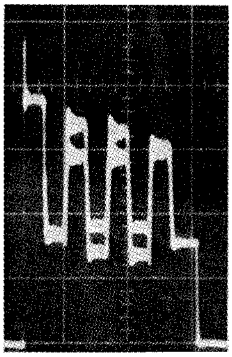
Printed circuit board A
Leiterplatte A



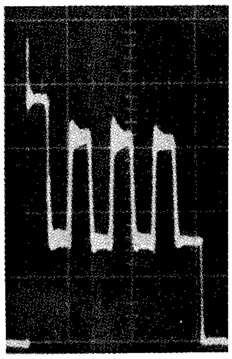


1. Plug the set to a wall outlet and turn on the power.
2. Connect the oscilloscope to the TP44B oscilloscope test pin on the OPK-102.
3. Select the SECAM color channel and adjust the color bar pattern (RV-3).

wrong pattern

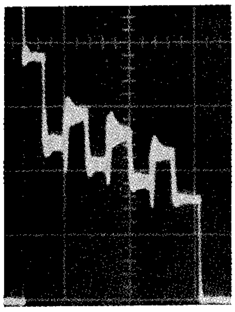


right pattern

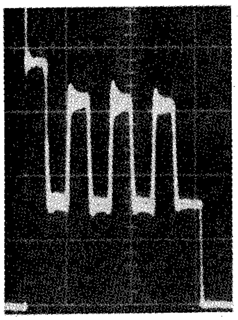


4. Select the PAL color channel and adjust the color bar pattern (RV-306).

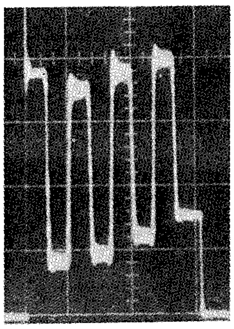
wrong pattern
(too pale color)



right pattern



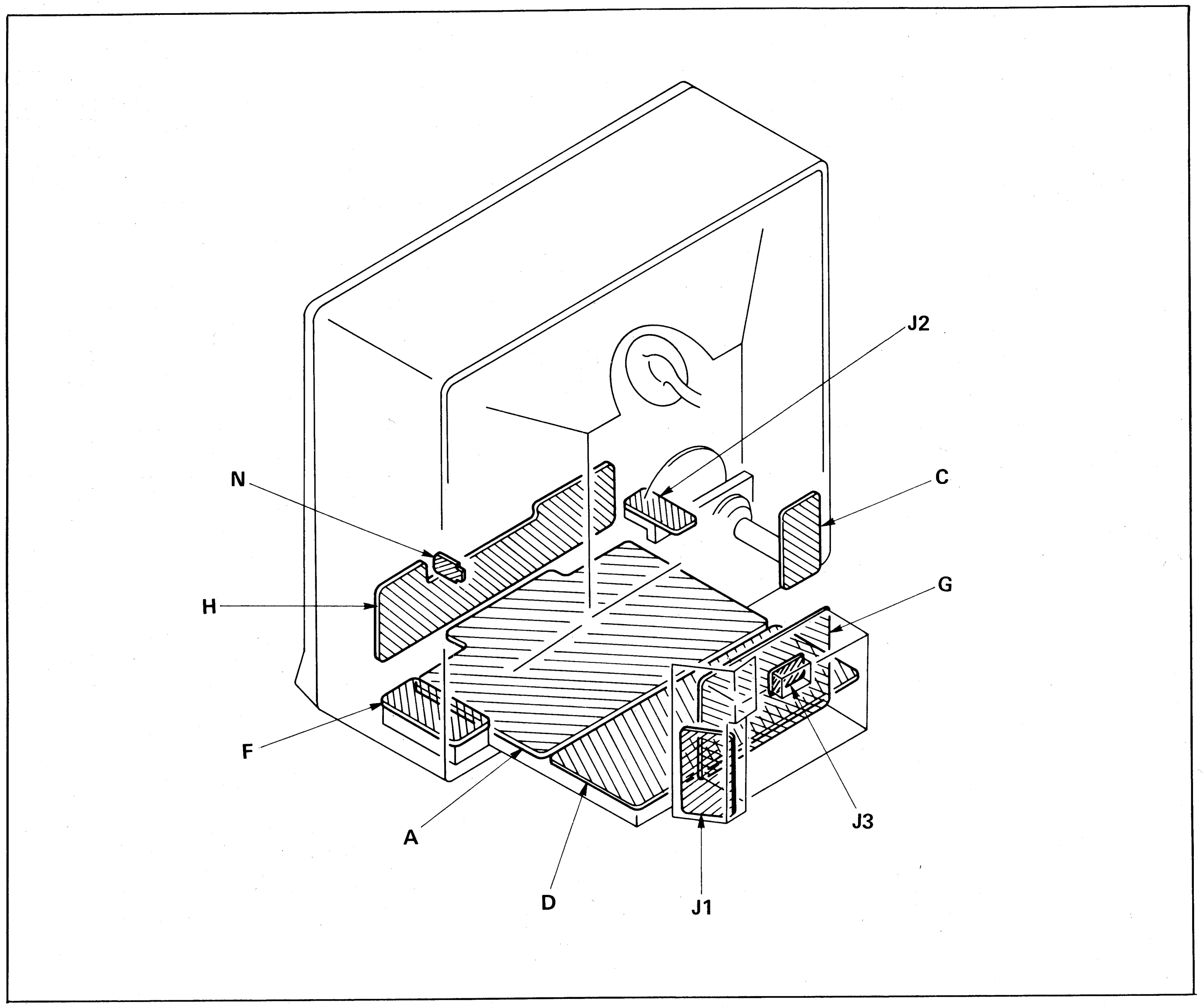
wrong pattern
(too vivid color)



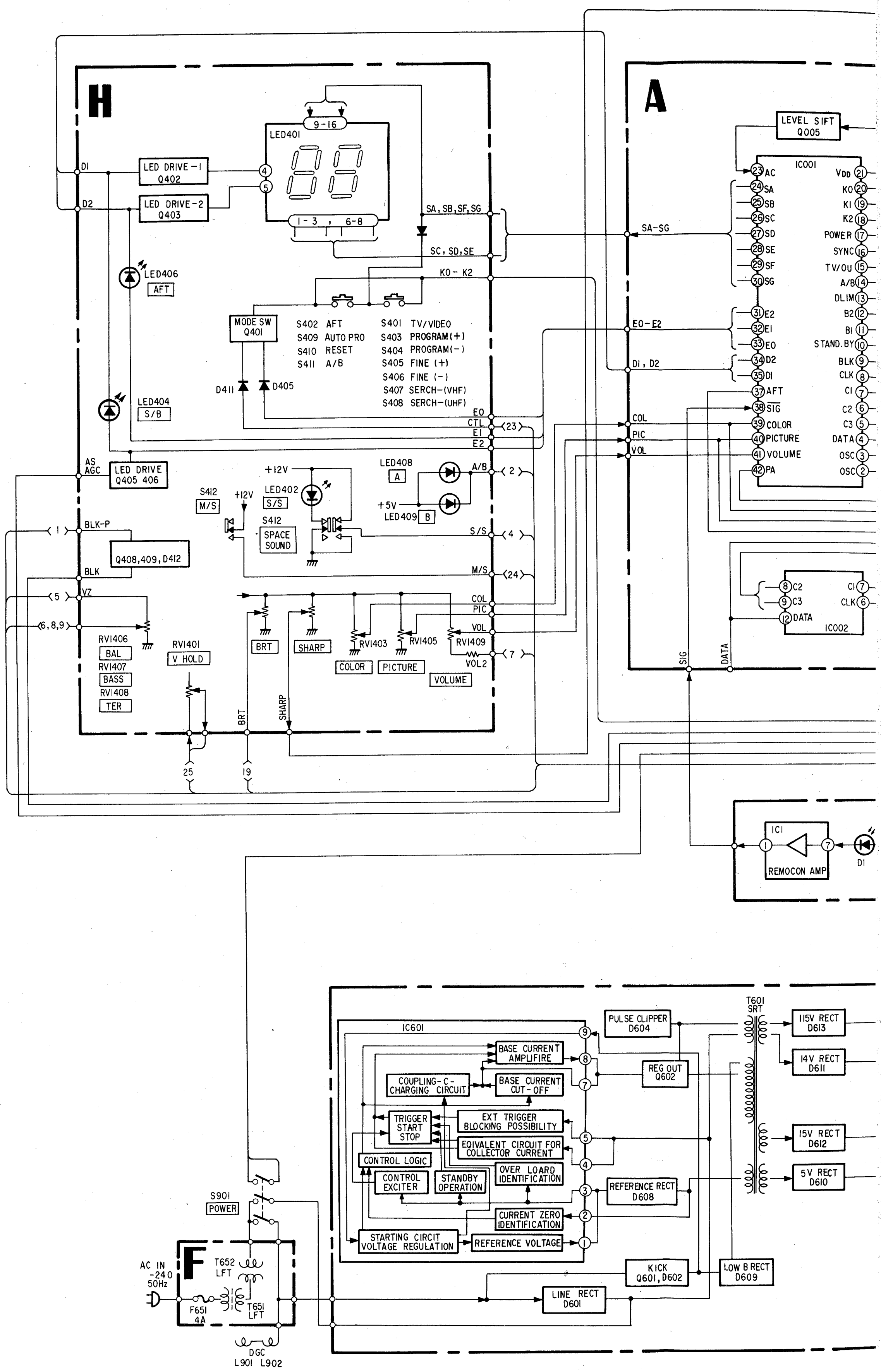
6. Attach the panels, etc. and adjust the ◑ control and ☼ control.

SECTION 3
DIAGRAMS

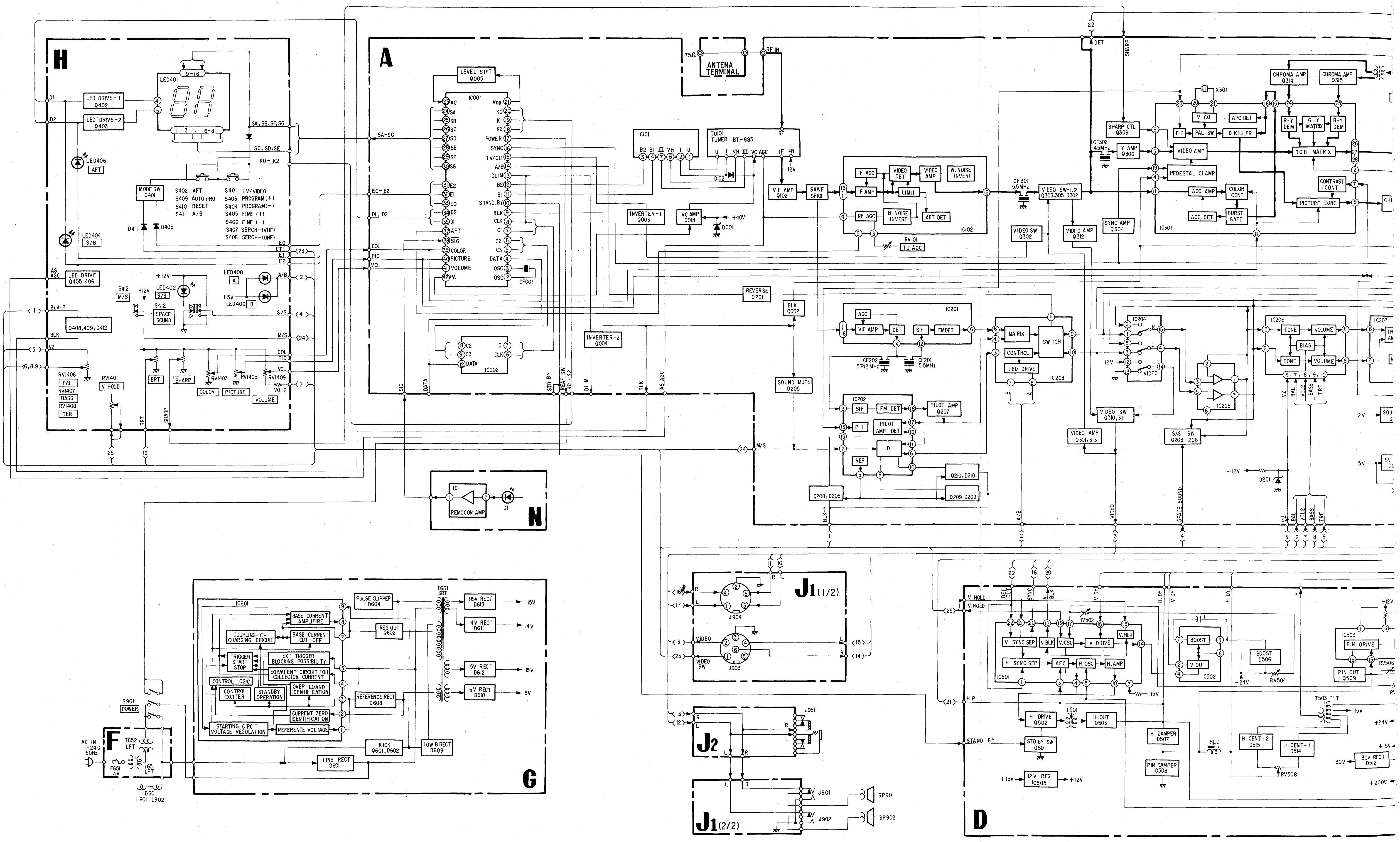
3-1. CIRCUIT BOARDS LOCATION


J2
N
C
G
H
F
A
D
J1
J3

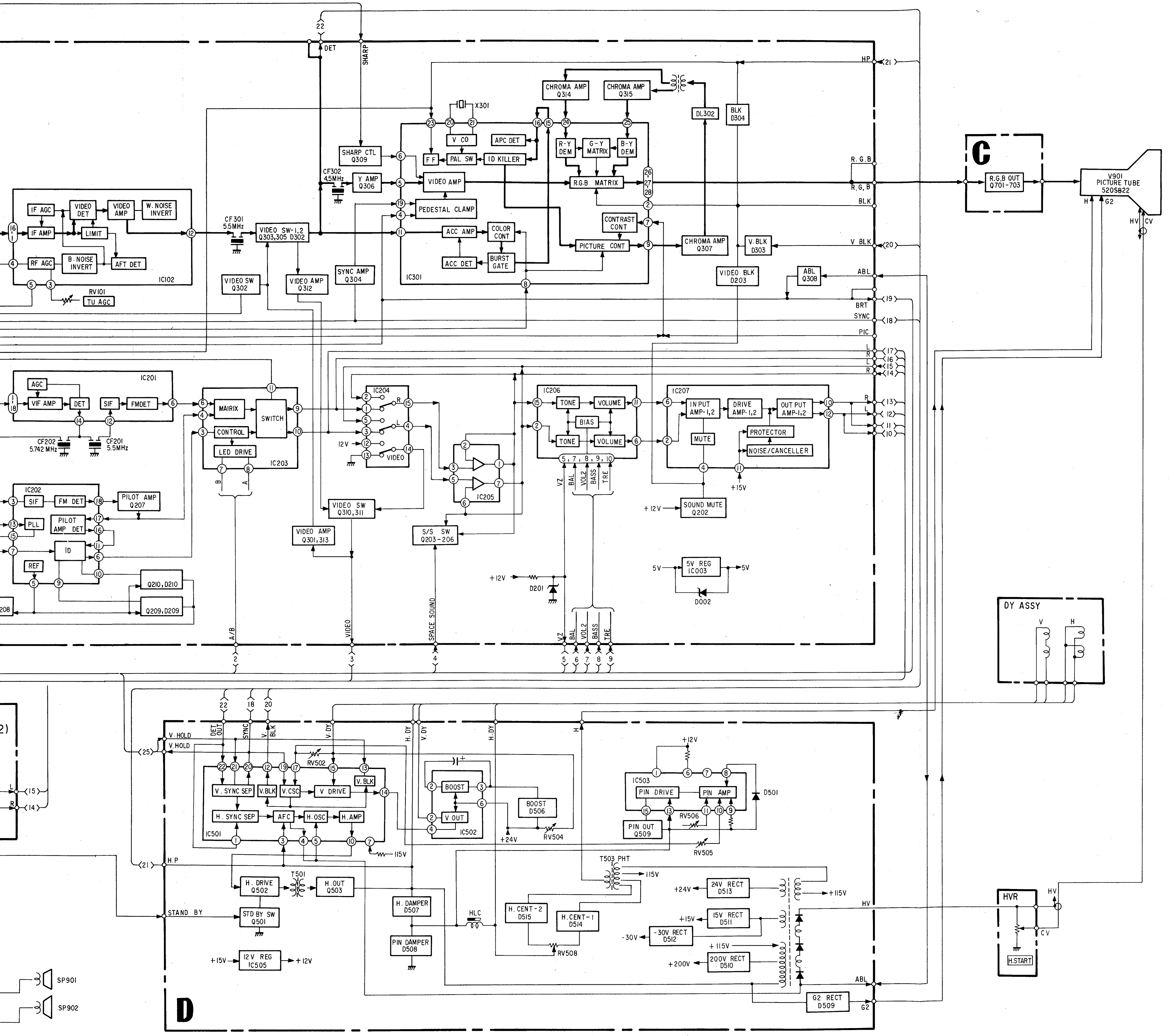
3-2. BLOCK DIAGRAM


H
LED401
9-16
1-3 , 6-8
D1
D2
LED DRIVE-1
Q402
LED DRIVE-2
Q403
SA, SB, SF, SG
SC, SD, SE
K0 - K2
LED406
AFT
MODE SW
Q401
S402 AFT
S409 AUTO PRO
S410 RESET
S411 A/B
S401 TV/VIDEO
S403 PROGRAM(+)
S404 PROGRAM(-)
S405 FINE (+)
S406 FINE (-)
S407 SERCH-(VHF)
S408 SERCH-(UHF)
D411
D405
LED404
S/B
E0
CTL
E1
E2
23
AS
AGC
LED DRIVE
Q405 406
S412
M/S
+12V
LED402
S/S
S412
SPACE SOUND
LED408
A
+5V
LED409
B
A/B
2
S/S
4
M/S
24
BLK-P
1
Q408,409,D412
BLK
VZ
5
6,8,9
RV1406
BAL
RV1407
BASS
RV1408
TER
RV1401
V HOLD
BRT
SHARP
RV1403
COLOR
RV1405
PICTURE
RV1409
VOLUME
COL
PIC
VOL
VOL2
7
25
19
A
LEVEL SIFT
Q005
IC001
23 AC
24 SA
25 SB
26 SC
27 SD
28 SE
29 SF
30 SG
31 E2
32 E1
33 E0
34 D2
35 D1
37 AFT
38 SIG
39 COLOR
40 PICTURE
41 VOLUME
42 PA
VDD 21
K0 20
K1 19
K2 18
POWER 17
SYNC 16
TV/OU 15
A/B 14
DLIM 13
B2 12
B1 11
STAND.BY 10
BLK 9
CLK 8
C1 7
C2 6
C3 5
DATA 4
OSC 3
OSC 2
SA-SG
E0-E2
D1, D2
COL
PIC
VOL
8 C2
9 C3
12 DATA
C1 7
CLK 6
IC002
SIG
DATA
IC1
REMOCON AMP
D1
AC IN
~240
50Hz
F
F651
4A
T652
LFT
T651
LFT
DGC
L901 L902
S901
POWER
IC601
BASE CURRENT AMPLIFIRE
COUPLING-C-CHARGING CIRCUIT
BASE CURRENT CUT-OFF
TRIGGER START STOP
EXT TRIGGER BLOCKING POSSIBILITY
EQIVALENT CIRCUIT FOR COLLECTOR CURRENT
CONTROL LOGIC
CONTROL EXCITER
STANDBY OPERATION
OVER LOARD IDENTIFICATION
CURRENT ZERO IDENTIFICATION
STARTING CIRCIT VOLTAGE REGULATION
REFERENCE VOLTAGE
PULSE CLIPPER
D604
REG OUT
Q602
REFERENCE RECT
D608
KICK
Q601, D602
LOW B RECT
D609
LINE RECT
D601
T601
SRT
115V RECT
D613
14V RECT
D611
15V RECT
D612
5V RECT
D610

AM



H
A
N
G
F
D
J1(1/2)
J2
J1(2/2)
LED DRIVE-1 Q402
LED DRIVE-2 Q403
LED401
LED406 AFT
LED404 S/B
MODE SW Q401
S402 AFT
S409 AUTO PRO
S410 RESET
S411 A/B
S401 TV/VIDEO
S403 PROGRAM(+)
S404 PROGRAM(-)
S405 FINE (+)
S406 FINE (-)
S407 SERCH-(VHF)
S408 SERCH-(UHF)
LED DRIVE Q405 406
Q408,409,D412
S412 SPACE SOUND
LED402 S/S
LED408 A
LED409 B
RV1406 BAL
RV1407 BASS
RV1408 TER
RV1401 V HOLD
BRT
SHARP
RV1403 COLOR
RV1405 PICTURE
RV1409 VOLUME
VOL2
LEVEL SIFT Q005
IC001
IC002
CF001
ANTENA TERMINAL
75Ω
RF IN
TU101 TUNER BT-883
IC101
D102
VC AMP Q001
D001
+40V
INVERTER-1 Q003
INVERTER-2 Q004
VIF AMP Q102
SAWF SF101
IF AGC
IF AMP
RF AGC
VIDEO DET
VIDEO AMP
W. NOISE INVERT
LIMIT
B. NOISE INVERT
AFT DET
IC102
RV101 TU AGC
CF301 5.5MHz
VIDEO SW-1,2 Q303,305 D302
VIDEO SW Q302
VIDEO AMP Q312
SYNC AMP Q304
SHARP CTL Q309
CF302 4.5MHz
Y AMP Q306
X301
V CO
APC DET
PAL SW
ID KILLER
VIDEO AMP
PEDESTAL CLAMP
ACC AMP
ACC DET
COLOR CONT
BURST GATE
CHROMA AMP Q314
CHROMA AMP Q315
R-Y DEM
G-Y MATRIX
B-Y DEM
R.G.B MATRIX
CONTRAST CONT
PICTURE CONT
IC301
REVERSE Q201
BLK Q002
SOUND MUTE D205
IC201
AGC
VIF AMP
DET
SIF
FMDET
CF202 5.742MHz
CF201 5.5MHz
IC202
FM DET
PILOT AMP Q207
PLL
PILOT AMP DET
ID
REF
Q210,D210
Q209,D209
Q208,D208
MAIRIX
SWITCH
CONTROL
LED DRIVE
IC203
IC204
IC205
IC206
IC207
TONE
VOLUME
BIAS
VIDEO SW Q310,311
VIDEO AMP Q301,313
S/S SW Q203-206
D201
REMOCON AMP
IC1
D1
IC601
BASE CURRENT AMPLIFIRE
BASE CURRENT CUT-OFF
COUPLING-C-CHARGING CIRCUIT
TRIGGER START STOP
EXT TRIGGER BLOCKING POSSIBILITY
EQIVALENT CIRCUIT FOR COLLECTOR CURRENT
CONTROL LOGIC
CONTROL EXCITER
STANDBY OPERATION
OVER LOARD IDENTIFICATION
CURRENT ZERO IDENTIFICATION
STARTING CIRCIT VOLTAGE REGULATION
REFERENCE VOLTAGE
PULSE CLIPPER D604
REG OUT Q602
REFERENCE RECT D608
KICK Q601,D602
LINE RECT D601
LOW B RECT D609
T601 SRT
115V RECT D613
14V RECT D611
15V RECT D612
5V RECT D610
115V
14V
15V
5V
S901 POWER
AC IN ~240 50Hz
F651 4A
T652 LFT
T651 LFT
DGC L901 L902
J904
J903
J951
J901
J902
SP901
SP902
V.HOLD
H.P
STAND BY
V. SYNC SEP
V.BLK
V.CSC
V DRIVE
H. SYNC SEP
AFC
H.OSC
H.AMP
IC501
RV502
BOOST
V OUT
IC502
BOOST D506
RV504
H. DRIVE Q502
T501
H.OUT Q503
STD BY SW Q501
12V REG IC505
H. DAMPER D507
PIN DAMPER D508
HLC
H. CENT-2 D515
H. CENT-1 D514
RV508
T503 PHT
-30V RECT D512
PIN DRIVE
PIN OUT Q509
RV506
IC503
+200V

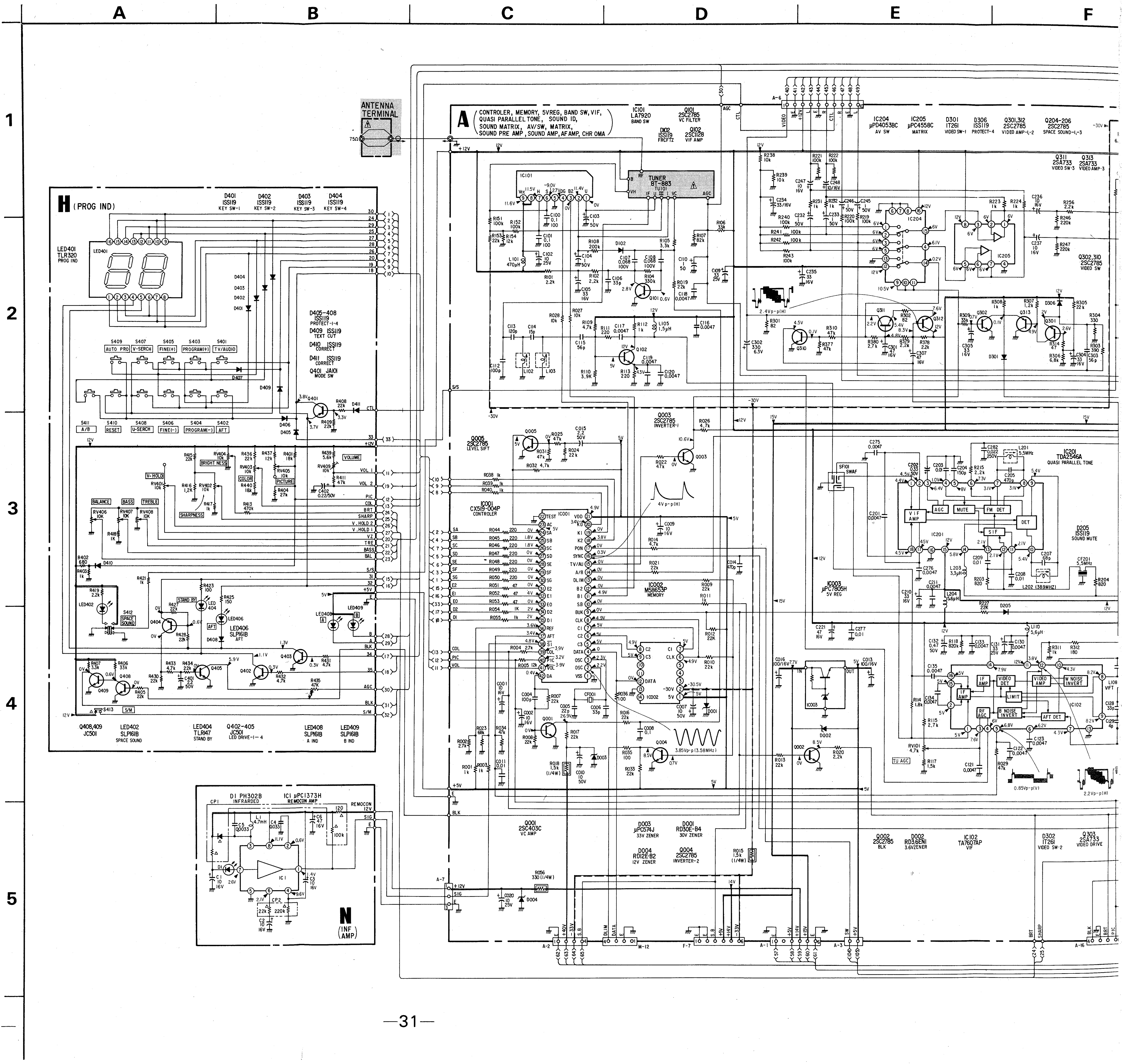

IF AGC
IF AMP
VIDEO DET
VIDEO AMP
W. NOISE INVERT
LIMIT
RF AGC
B. NOISE INVERT
AFT DET
IC102
RV101
TU AGC
CF301 5.5MHz
VIDEO SW-1,2 Q303,305 D302
VIDEO SW Q302
VIDEO AMP Q312
SYNC AMP Q304
CF302 4.5MHz
SHARP CTL Q309
Y AMP Q306
DET
SHARP
X301
V CO
APC DET
FF
PAL SW
ID KILLER
VIDEO AMP
PEDESTAL CLAMP
ACC AMP
COLOR CONT
ACC DET
BURST GATE
IC301
CHROMA AMP Q314
CHROMA AMP Q315
R-Y DEM
G-Y MATRIX
B-Y DEM
R.G.B MATRIX
CONTRAST CONT
PICTURE CONT
DL302
BLK D304
CHROMA AMP Q307
V. BLK D303
VIDEO BLK D203
ABL Q308
HP
R. G. B
BLK
V. BLK
ABL
BRT
SYNC
PIC
L
R
C
R.G.B OUT Q701-703
V901 PICTURE TUBE 520SB22
H
G2
HV
CV
IC201
AGC
VIF AMP
DET
SIF
FMDET
CF202 5.742 MHz
CF201 5.5MHz
MAIRIX
CONTROL
LED DRIVE
SWITCH
IC203
A/B
IC204
VIDEO
12V
IC205
IC206
TONE
VOLUME
BIAS
VZ
BAL
VOL2
BASS
TRE
IC207
INPUT AMP-1,2
DRIVE AMP-1,2
OUT PUT AMP-1,2
MUTE
PROTECTOR
NOISE/CANCELLER
+15V
+12V
SOUND MUTE Q202
IC202
SIF
FM DET
PILOT AMP Q207
PLL
PILOT AMP DET
ID
REF
Q210,D210
Q209,D209
VIDEO SW Q310,311
VIDEO AMP Q301,313
S/S SW Q203-206
SPACE SOUND
+12V
D201
5V
5V REG IC003
D002
DY ASSY
V
H
SP901
SP902
D
V. HOLD
DET OUT
SYNC
V. BLK
V. DY
H. DY
RV502
V. SYNC SEP
V.BLK
V.CSC
V DRIVE
H. SYNC SEP
AFC
H. OSC
H. AMP
IC501
115V
BOOST
V OUT
IC502
BOOST D506
+24V
RV504
IC503
PIN DRIVE
PIN AMP
D501
RV506
PIN OUT Q509
RV505
H.P
STAND BY
H. DRIVE Q502
T501
H. OUT Q503
STD BY SW Q501
H. DAMPER D507
PIN DAMPER D508
HLC
H. CENT-2 D515
H. CENT-1 D514
RV508
T503 PHT
24V RECT D513
15V RECT D511
-30V RECT D512
200V RECT D510
+115V
+200V
-30V
G2 RECT D509
12V REG IC505
HVR
H.START

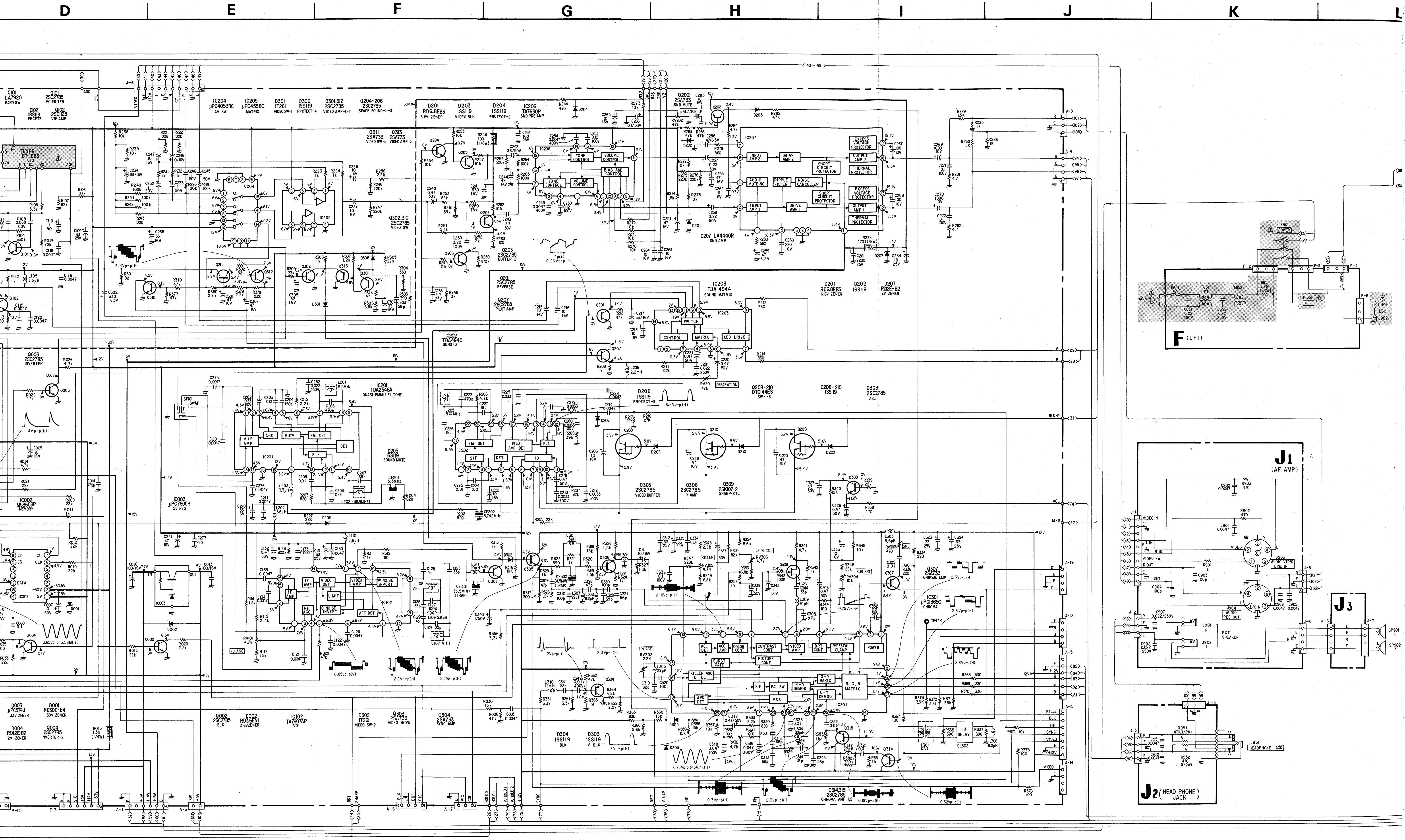
3-3. SCHEMATIC DIAGRAM

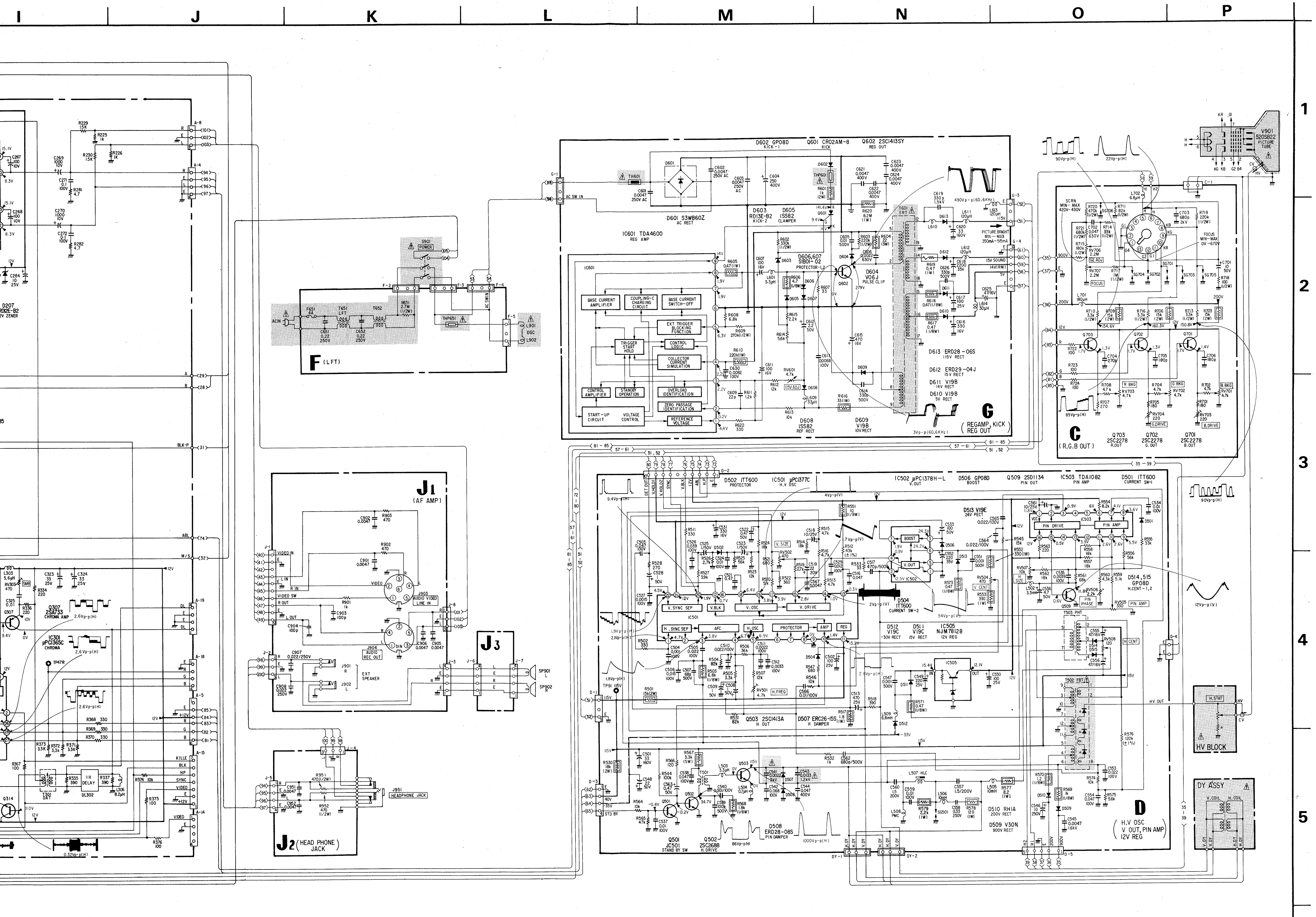
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- Resistors on the C, D, G boards are in ohms, ¼W unless otherwise noted.
- Resistors on the A, H, J1 boards are in ohms, 1/6W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a 10M-ohms-par-volt digital multimeter.
- Readings are taken with a PAL colour-bar signal input.
- ▭ : adjustment for repair.
- —— : B+ bus.
- - - - : B- bus.


A
B
C
D
E
F
1
2
3
4
5
ANTENNA TERMINAL
75Ω
A
CONTROLER, MEMORY, 5VREG, BAND SW, VIF, QUASI PARALLEL TONE, SOUND ID, SOUND MATRIX, AV/SW, MATRIX, SOUND PRE AMP, SOUND AMP, AF AMP, CHR OMA
IC101 LA7920 BAND SW
Q101 2SC2785 VC FILTER
D102 ISS119 FRCFTZ
Q102 2SC1128 VIF AMP
TUNER BT-883 TU101
IC204 μPD4053BC AV SW
IC205 μPC4558C MATRIX
D301 IT261 VIDEO SW-1
D306 ISS119 PROTECT-4
Q301,312 2SC2785 VIDEO AMP-L-2
Q204-206 2SC2785 SPACE SOUND-L-3
Q311 2SA733 VIDEO SW-3
Q313 2SA733 VIDEO AMP-3
Q302,310 2SC2785 VIDEO SW
H (PROG IND)
D401 ISS119 KEY SW-1
D402 ISS119 KEY SW-2
D403 ISS119 KEY SW-3
D404 ISS119 KEY SW-4
LED401 TLR320 PROG IND
S409 AUTO PRO
S407 V-SERCH
S405 FINE(+)
S403 PROGRAM(+)
S401 TV/AUDIO
S411 A/B
S410 RESET
S408 U-SERCH
S406 FINE(-)
S404 PROGRAM(-)
S402 AFT
D405-408 ISS119 PROTECT-1-4
D409 ISS119 TEXT CUT
D410 ISS119 CORRECT
D411 ISS119 CORRECT
Q401 JA101 MODE SW
BRIGHT NESS
VOLUME
COLOR
PICTURE
V-HOLD
BALANCE
BASS
TREBLE
SHARPNESS
STAND BY
SPACE SOUND
S/M
Q408,409 JC501
LED402 SLP161B SPACE SOUND
LED404 TLR147 STAND BY
Q402-405 JC501 LED DRIVE-1-4
LED408 SLP161B A IND
LED409 SLP161B B IND
Q005 2SC2785 LEVEL SIFT
Q003 2SC2785 INVERTER-1
IC001 CX519-004P CONTROLER
IC002 M58653P MEMORY
4Vp-p(H)
3.85Vp-p(3.58MHz)
Q001 2SC403C VC AMP
D003 μPC574J 33V ZENER
D001 RD30E-B4 30V ZENER
D004 RD12E-B2 12V ZENER
Q004 2SC2785 INVERTER-2
IC201 TDA2546A QUASI PARALLEL TONE
SF101 SWAF
D205 ISS119 SOUND MUTE
CF201 5.5MHz
IC003 μPC7805H 5V REG
IC102
TU AGC
0.85Vp-p(V)
2.2Vp-p(H)
2.4Vp-p(H)
Q002 2SC2785 BLK
D002 RD3.6EN1 3.6VZENER
IC102 TA7607AP VIF
D302 IT261 VIDEO SW-2
Q303 2SA733 VIDEO DRIVE
D1 PH302B INFRARDED
IC1 μPC1373H REMOCON AMP
REMOCON
N (INF AMP)


D
E
F
G
H
I
J
K
L
IC101 LA7920 BAND SW
Q101 2SC2785 VC FILTER
D102 ISS119 FRCFTZ
Q102 2SC1128 VIF AMP
TUNER BT-B83 (U101)
IC204 μPD4053BC AV SW
IC205 μPC4558C MATRIX
D301 IT261 VIDEO SW-1
D306 ISS119 PROTECT-4
Q301,312 2SC2785 VIDEO AMP-L-2
Q204-206 2SC2785 SPACE SOUND-1,-3
Q311 2SA733 VIDEO SW-3
Q313 2SA733 VIDEO AMP-3
Q302,310 2SC2785 VIDEO SW
D201 RD6.8EB3 6.8V ZENER
D203 ISS119 VIDEO BLK
D204 ISS119 PROTECT-2
IC206 TA7630P SND.PRE AMP
Q203 2SC2785 BUFFER-2
TONE CONTROL
VOLUME CONTROL
BIAS AND CONTROL
TONE CONTROL
VOLUME CONTROL
Q202 2SA733 SND MUTE
BALANCE
IC207 LA4440R SND AMP
INPUT AMP 2
DRIVE AMP 2
OUTPUT AMP 2
EXCESS VOLTAGE PROTECTOR
SHORT CIRCUIT PROTECTOR
THERMAL PROTECTOR
AUDIO MUTEING
RIPPLE FILTER
NOISE CANCELLER
INPUT AMP 1
DRIVE AMP 1
OUTPUT AMP 1
Q201 2SC2785 REVERSE
Q207 2SC2785 PILOT AMP
IC203 TDA 4944 SOUND MATRIX
SWITCH
CONTROL
MATRIX
LED DRIVE
SEPARATION
IC202 TDA4940 SUND ID
D201 RD6.8EB3 6.8V ZENER
D202 ISS119
D207 RD12E-B2 12V ZENER
Q003 2SC2785 INVERTER-1
IC201 TDA2546A QUASI PARALLEL TONE
SF101 SWAF
VIF AMP
AGC
MUTE
FM DET
SIF
DET
D205 ISS119 SOUND MUTE
CF201 5.5MHz
L202 (38.9MHZ)
L205 5.74MHz
FM DET
SIF
RET
PILOT AMP DET
ID
PLL
D206 ISS119 PROTECT-3
Q208-210 DTC144ES SW-1-3
D208-210 ISS119
Q308 2SC2785 ABL
Q305 2SC2785 VIDEO BUFFER
Q306 2SC2785 Y AMP
Q309 2SK107-2 SHARP. CTL
IC002 MS6853P MEMORY
IC003 μPC7805H 5V REG
CF202 5.742MHz
IF AMP
VIDEO DET
VIDEO AMP
W NOISE INVERT
LIMIT
AFT DET
IF AGC
RF AGC
B NOISE INVERT
IC102
L108 VIFT
L107 VIFT
CF301 (5.5MHz) (TRAP)
TU AGC
CF302 4.5MHz (TRAP)
SUB COL
KILLER
SUB BRT
IC301 μPC1365C CHROMA
Q307 2SA733 CHROMA AMP
PHASE
ACC DET
ACC AMP
COLOR CONT
CONTRAST CONT
VIDEO AMP
BRT CONT
PEDESTAL CLAMP
POWER
BURST GATE
PICTURE CONT
KILLER AND ID DET
F.F
PAL SW
R-Y DEMOD
G-Y MARIX
B-Y DEMOD
R.G.B MATRIX
APC DET
VCO
APC
1H DELAY DL302
Q003
Q004 2SC2785 INVERTER-2
D003 μPC574J 33V ZENER
D001 RD30E-B4 30V ZENER
D004 RD12E-B2 12V ZENER
Q002 2SC2785 BLK
D002 RD36ENI 3.6VZENER
IC102 TA7607AP VIF
D302 IT261 VIDEO SW-2
Q303 2SA733 VIDEO DRIVE
Q304 2SA733 SYNC AMP
D304 ISS119 BLK
D303 ISS119 V BLK
Q314,315 2SC2785 CHROMA AMP-1,2
TP47R
S901 POWER
F(LFT)
ACIN
F651 4A
T651 LFT
T652
R651 2.7M (1/2W)
THP651
L901 DGC L902
J1 (AF AMP)
VIDEO IN
VIDEO SW
AUDIO VIDEO LINE IN
J904 AUDIO REC OUT
J901 J902
EXT SPEAKER
J3
SP901 L
SP902 R
J2 (HEAD PHONE JACK)
J951 HEADPHONE JACK
2.4Vp-p(H)
4Vp-p(H)
3.85Vp-p(3.58MHz)
0.85Vp-p(V)
2.2Vp-p(H)
2.3Vp-p(H)
0.26Vp-p
6.8Vp-p(H)
0.18Vp-p(H)
0.75Vp-p(H)
2.6Vp-p(H)
2Vp-p(H)
2.3Vp-p(H)
3Vp-p(H)
0.23Vp-p(434.7KHz)
0.3Vp-p(H)
2.3Vp-p(H)
0.19Vp-p(H)
0.32Vp-p(H)
M-12
F-7
A-1
A-3
A-16
A-17
A-6
A-8
A-4
A-19
A-18
A-5
A-15
A-14
F-2
F-3
F-4
F-5


I
J
K
L
M
N
O
P
1
2
3
4
5
F (LFT)
S901 POWER
ACIN
F651 4A
T651 LFT
T652
R651 2.7M (1/2W)
C651 0.22 250V
C652 0.22 250V
THP651
L901 DGC L902
G (REGAMP, KICK REG OUT)
D602 GP08D KICK-1
Q601 CR02AM-8 KICK
Q602 2SC1413SY REG OUT
D601 S3WB60Z AC RECT
IC601 TDA4600 REG AMP
D603 RD13E-B2 KICK-2
D605 1SS82 CLAMPER
D606,607 S1B01-02 PROTECTOR-1,2
D604 V06J PULSE CLIP
T601 SRT
D613 ERD28-06S 115V RECT
D612 ERD29-04J 15V RECT
D611 V19B 14V RECT
D610 V19B 5V RECT
D608 1SS82 REF RECT
D609 V19B 10V RECT
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SWITCH-OFF
EXT TRIGGER BLOCKING FUNCTION
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
490Vp-p(60.6KHz)
3Vp-p(60.6KHz)
PICTURE BRIGHT MIN - MAX 350mA - 515mA
V901 520SB22 PICTURE TUBE
C (R.G.B OUT)
Q703 2SC2278 R.OUT
Q702 2SC2278 G.OUT
Q701 2SC2278 B.OUT
SCRN MIN - MAX 420V - 430V
FOCUS MIN - MAX 0V - 670V
90Vp-p(H)
22Vp-p(H)
85Vp-p(H)
J1 (AF AMP)
VIDEO IN
AUDIO VIDEO LINE IN
J903
J904 AUDIO REC OUT
J901 R
J902 L
EXT SPEAKER
J3
SP901 L
SP902 R
J2 (HEAD PHONE JACK)
J951 HEADPHONE JACK
D (H.V OSC V. OUT, PIN AMP 12V REG)
D502 ITT600 PROTECTOR
IC501 µPC1377C H.V OSC
IC502 µPC1378H-L V.OUT
D506 GP08D BOOST
Q509 2SD1134 PIN OUT
IC503 TDA1082 PIN AMP
D501 ITT600 CURRENT SW-1
D513 V19E 24V RECT
D504 ITT600 CURRENT SW-2
D512 V19C -30V RECT
D511 V19C 15V RECT
IC505 NJM7812B 12V REG
D514,515 GP08D H.CENT-1,2
V. SYNC SEP
V.BLK
V. OSC
V. DRIVE
H. SYNC SEP
AFC
H. OSC
PROTECTOR
AMP
REG
BOOST
V.OUT
PIN DRIVE
PIN AMP
Q503 2SC1413A H OUT
D507 ERC26-15S H DAMPER
Q501 JC501 STAND BY SW
Q502 2SC2688 H.DRIVE
D508 ERD28-08S PIN DAMPER
D510 RH1A 200V RECT
D509 V30N 900V RECT
T502 FBT
T503 PHT
HV BLOCK
DY ASSY
V. COIL
H. COIL
IC301 µPC1365C CHROMA
Q307 2SA733 CHROMA AMP
DL302 1H DELAY
D207 RD12E-B2 12V ZENER
0.32Vp-p(H)
2.6Vp-p(H)

3-4. PRINTED WIRING BOARDS

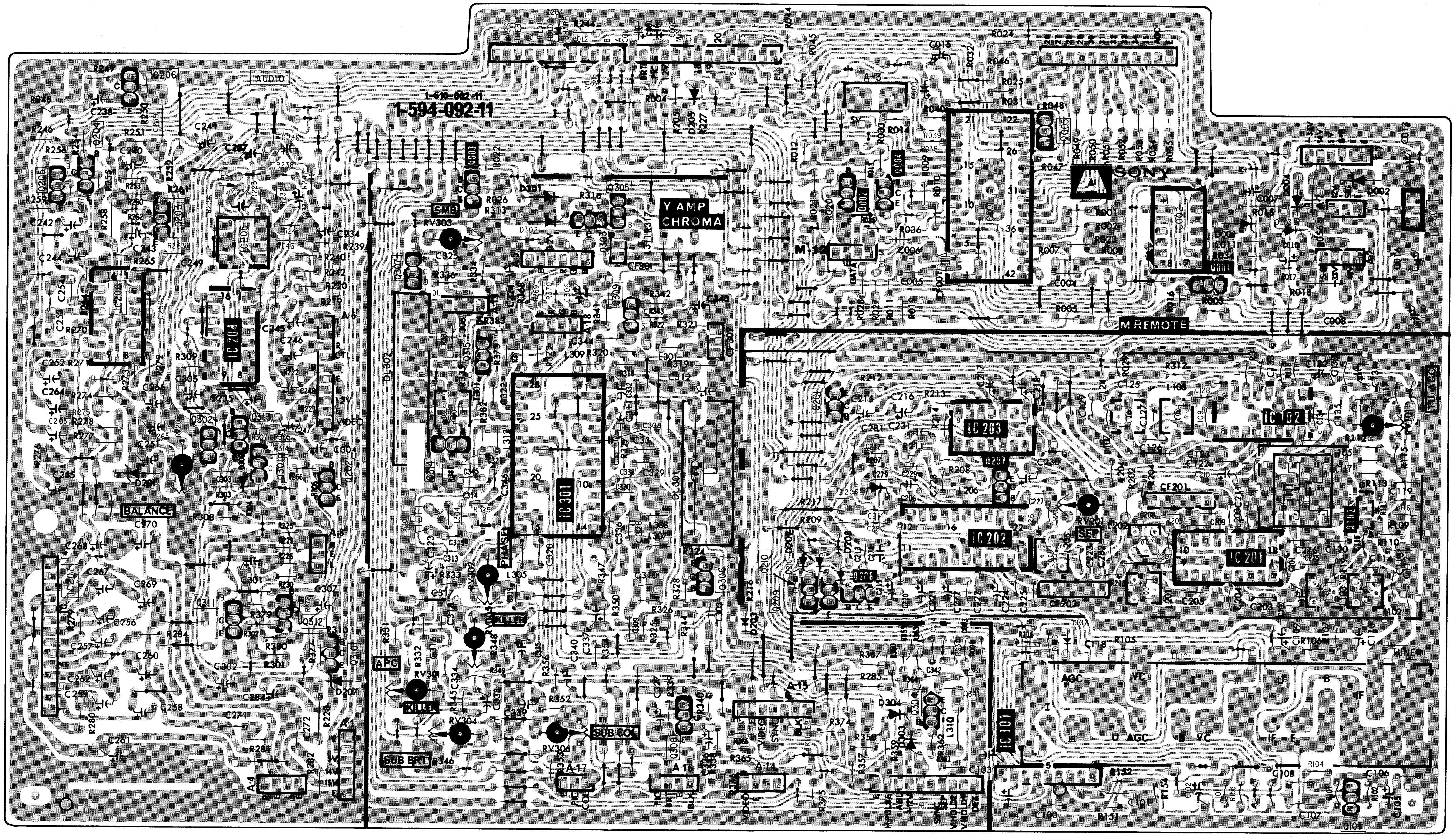
– Conductor Side –

CONTROLER, MEMORY, 5V REG,
BAND SW, VIF, QUASI CHROMA PARALLEL TONE
SOUND ID, MATRIX, SOUND PRE AMP,
SOUND AMP. AF AMP

A **A**

– A Board –

	A	B	C	D	E	F	G	
Q · IC	205 204 IC206 206 IC207	203 IC205 IC204 302, 313, 301 311 312 202 310	307 003 314 315 IC301 303	305 309 306 308	004 002 201 210, 209, 208 IC001 IC203 207 IC202 304	005 IC101 IC002 001	IC102 IC201 102 101 IC003	Q · IC
D	201	306 207	301 302 204	205 203	210, 209, 208 206 304, 303	102 001	003 004 002	D
ADJ		RV202	RV303 RV301 RV304 RV305 RV302 RV306			RV201	RV101	ADJ



1-594-092-11
AUDIO
BALANCE
SMB
Y AMP
CHROMA
SONY
M REMOTE
TU-AGC
TUNER
APC
KILLER
SUB BRT
SUB COL
PHASE
SEP
IC201
IC202
IC203
IC204
IC205
IC206
IC207
IC301
IC001
IC002
IC003
IC101
IC102
DL301
DL302
CF201
CF202

H·V OSC,
V OUT, PIN AMP,
12V REG

D **D**

A B C D E F G H

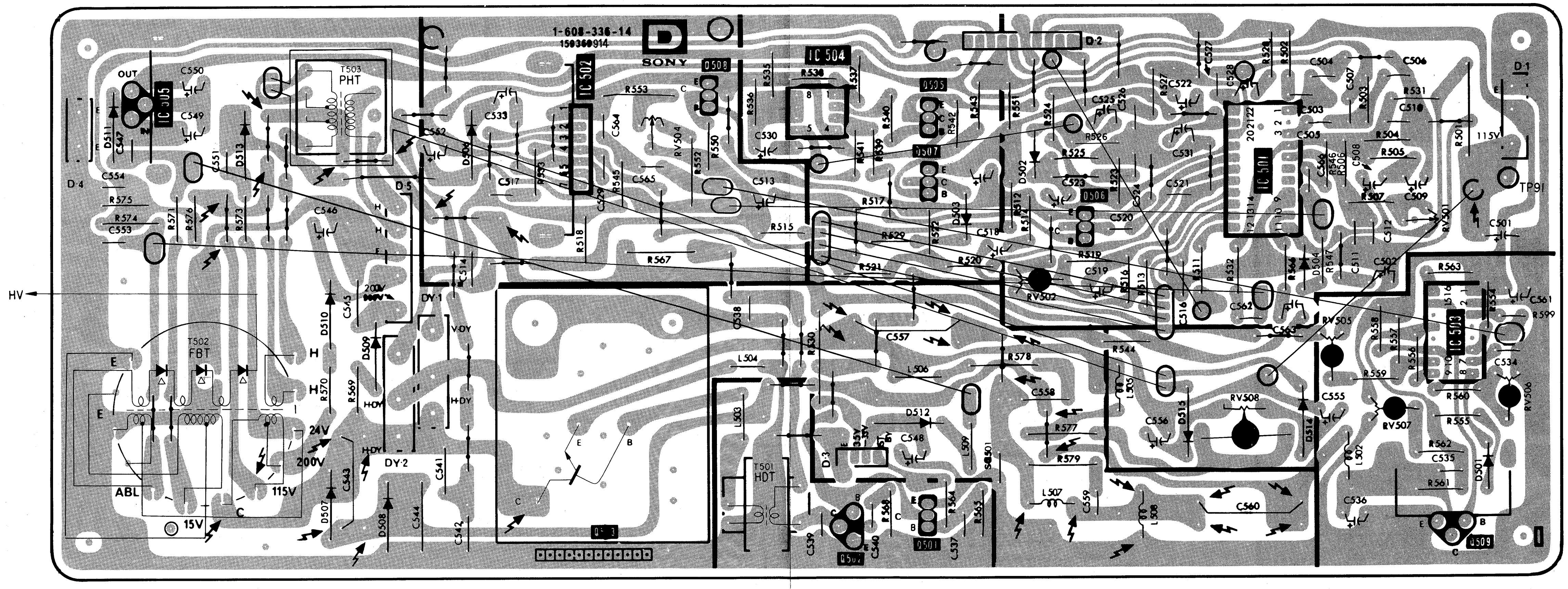
1

– D BOARD –

Q·IC	IC505, IC502, 503, 502, 501, IC501, IC503, 509
D	511, 513, 510, 507, 509, 508, 506, 512, 502, 515, 504, 514, 501
ADJ	RV504, RV502, RV508, RV505, RV507, RV501, RV506, TP91

2

3



1-608-336-14
SONY
HV
IC505
IC502
IC504
IC501
IC503
T503 PHT
T502 FBT
T501 HDT
ABL
15V
24V
200V
115V
DY·1
DY·2
D·1
D·2
D·3
D·4
D·5
H-DY
V-DY
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
Q509
RV501
RV502
RV504
RV505
RV506
RV507
RV508
TP91
L502
L503
L504
L505
L506
L507
L508
L509

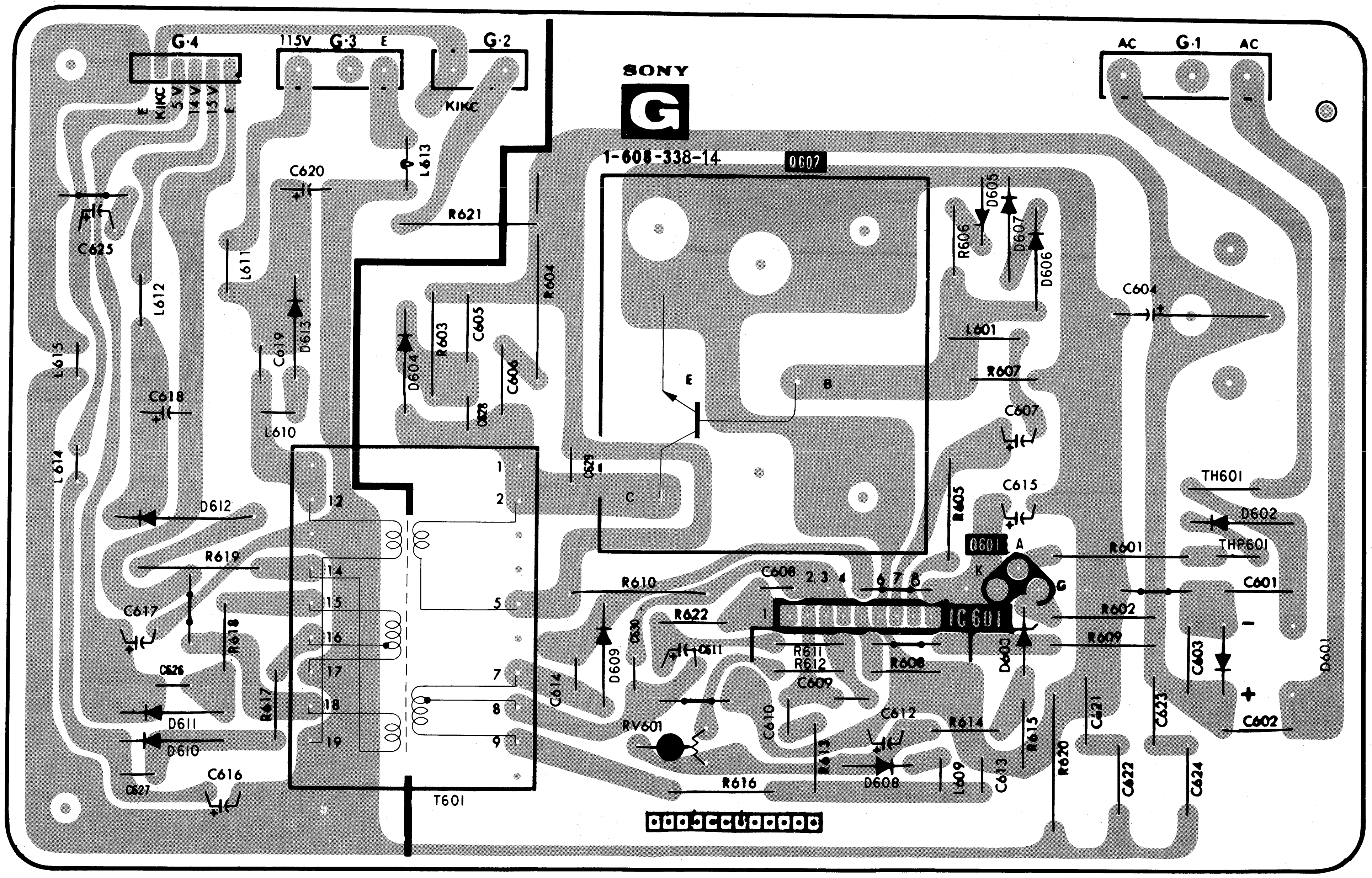
4

5

[REG AMP, KICK] **G** **G**
[REG OUT]

– G BOARD –

	A	B	C	D	E	F	G	H	
IC, Q					602 IC601 601				IC, Q
D		612 611 610	613 604	609	608 605,607,606 603	602	601		D
ADJ				RV601					ADJ

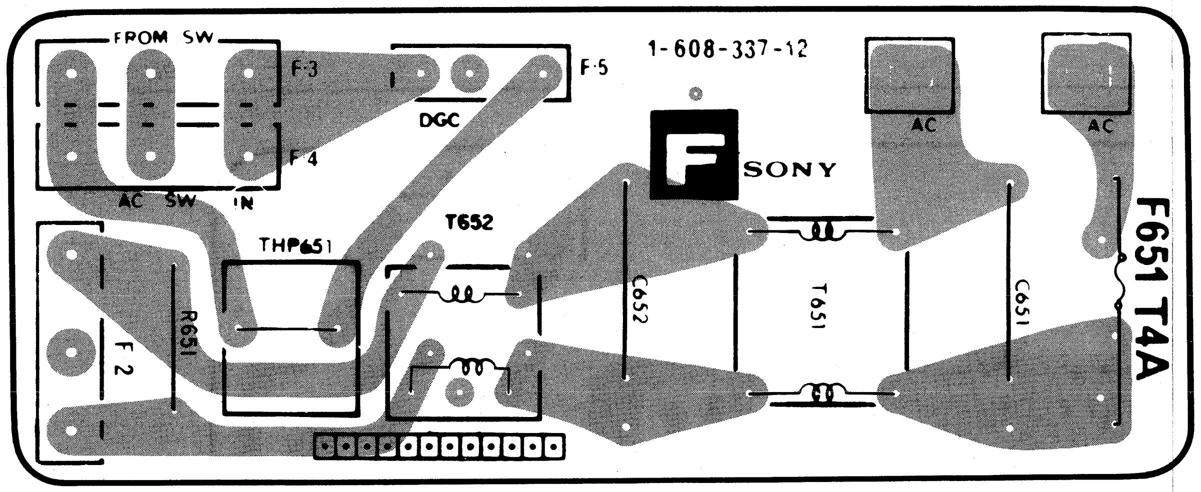

1
2
3
4
5
G·4
E
KIKC
5 V
14 V
15 V
E
115V
G·3
E
G·2
KIKC
SONY
G
1-608-338-14
Q607
AC
G·1
AC
C625
C620
L613
R621
L611
L612
D613
C619
L615
C618
L610
R604
R603
C605
C606
D604
C628
C629
E
B
C
D605
D607
D606
R606
C604
L601
R607
C607
C615
R605
TH601
D602
THP601
Q601
A
K
G
R601
C601
R602
R609
L614
D612
R619
C617
R618
C626
R617
D611
D610
C627
C616
12
14
15
16
17
18
19
1
2
5
7
8
9
T601
R610
C608
2 3 4
6 7 8
1
IC601
R622
C630
C611
D609
C614
R611
R612
R608
C609
D603
C603
D601
+
–
C602
RV601
C610
C612
R614
R613
D608
R616
L609
C613
R615
R620
C621
C622
C623
C624

[LFT] **F** [IND DRIVE / PROG IND] **H** **J3** **N** [INF AMP] **H**

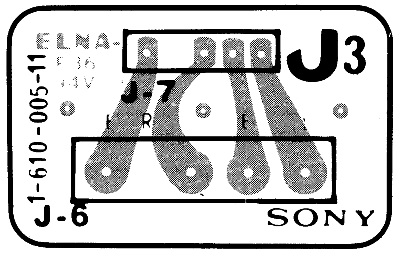
A B C D E F G H

1 2 3 4 5

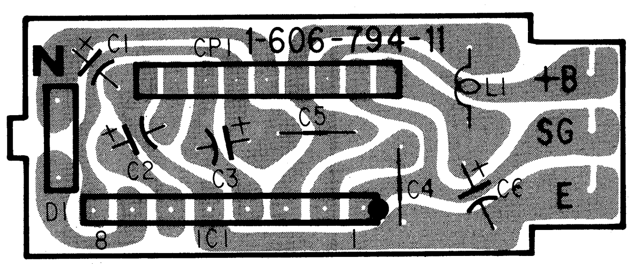
– F BOARD –


FROM SW
F-3
F-4
F-5
AC SW
IN
DGC
1-608-337-12
F
SONY
AC
AC
THP651
T652
R651
F 2
C652
T651
C651
F651 T4A

– J3 BOARD –

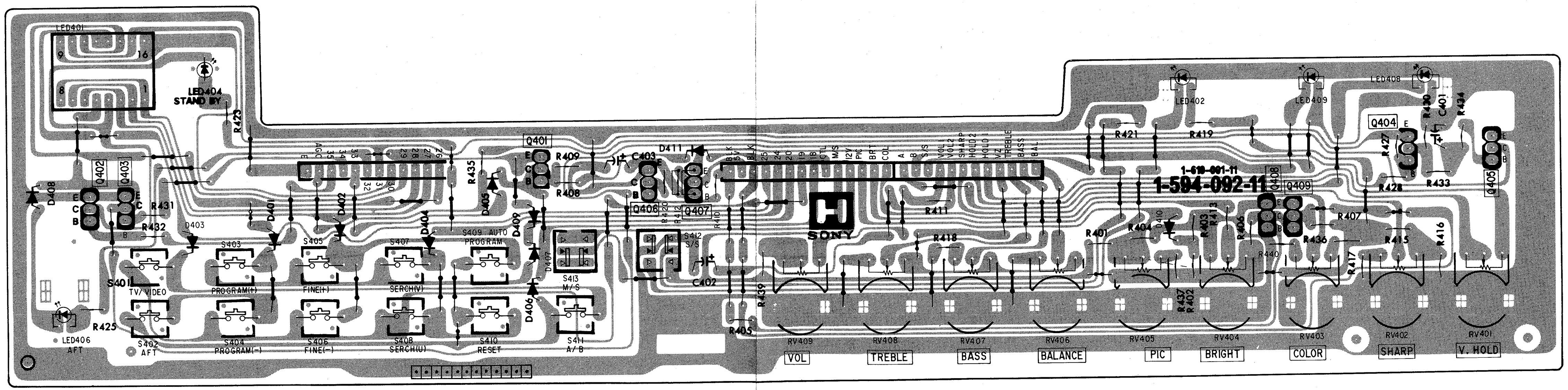

ELNA
1-610-005-11
J3
J-7
J-6
SONY

– N BOARD –


N
C1
CP1
1-606-794-11
L1
+B
SG
E
C2
C3
C5
C4
C6
D1
8
IC1
1

– H BOARD –

Q,IC	402, 403 / 401 / 408, 409 / 404 / 405	Q,IC
D	408 / LED401 / LED406 / LED404 / 403 / 401 / 402 / 404 / 405 / 409 407 406 / 411 / LED402 / 410 / LED409 / LED408	D

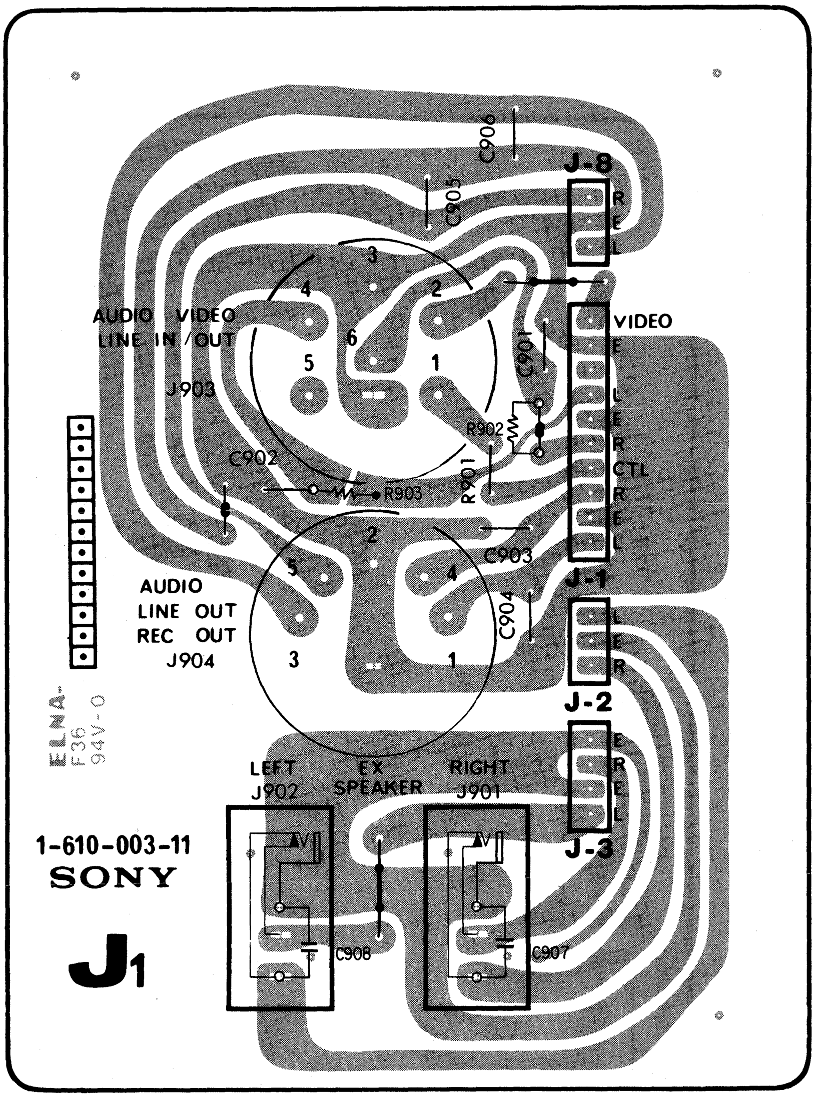

LED401
LED404 STAND BY
LED406 AFT
Q401
Q402
Q403
Q404
Q405
Q406
Q407
Q408
Q409
D401
D402
D403
D404
D405
D406
D407
D408
D409
D410
D411
S401 TV/VIDEO
S402 AFT
S403 PROGRAM(+)
S404 PROGRAM(−)
S405 FINE(+)
S406 FINE(−)
S407 SERCH(V)
S408 SERCH(U)
S409 AUTO PROGRAM
S410 RESET
S411 A/B
S412 S/S
S413 M/S
C401
C402
C403
LED402
LED408
LED409
1-594-092-11
SONY
H
RV409 VOL
RV408 TREBLE
RV407 BASS
RV406 BALANCE
RV405 PIC
RV404 BRIGHT
RV403 COLOR
RV402 SHARP
RV401 V. HOLD

[AF AMP] **J1** [HEAD PHONE JACK] **J2**

A B C D

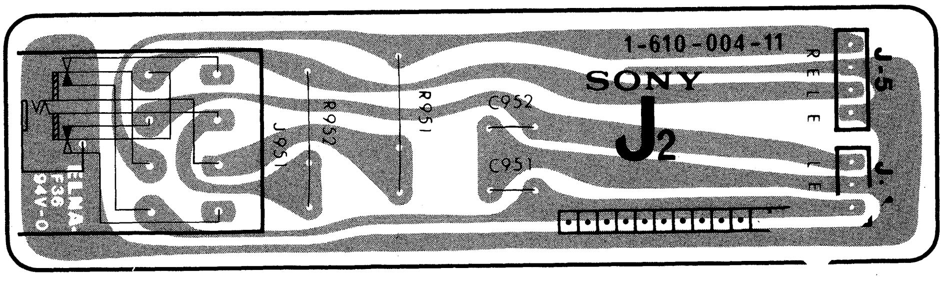
1 2 3 4 5

– J1 BOARD –



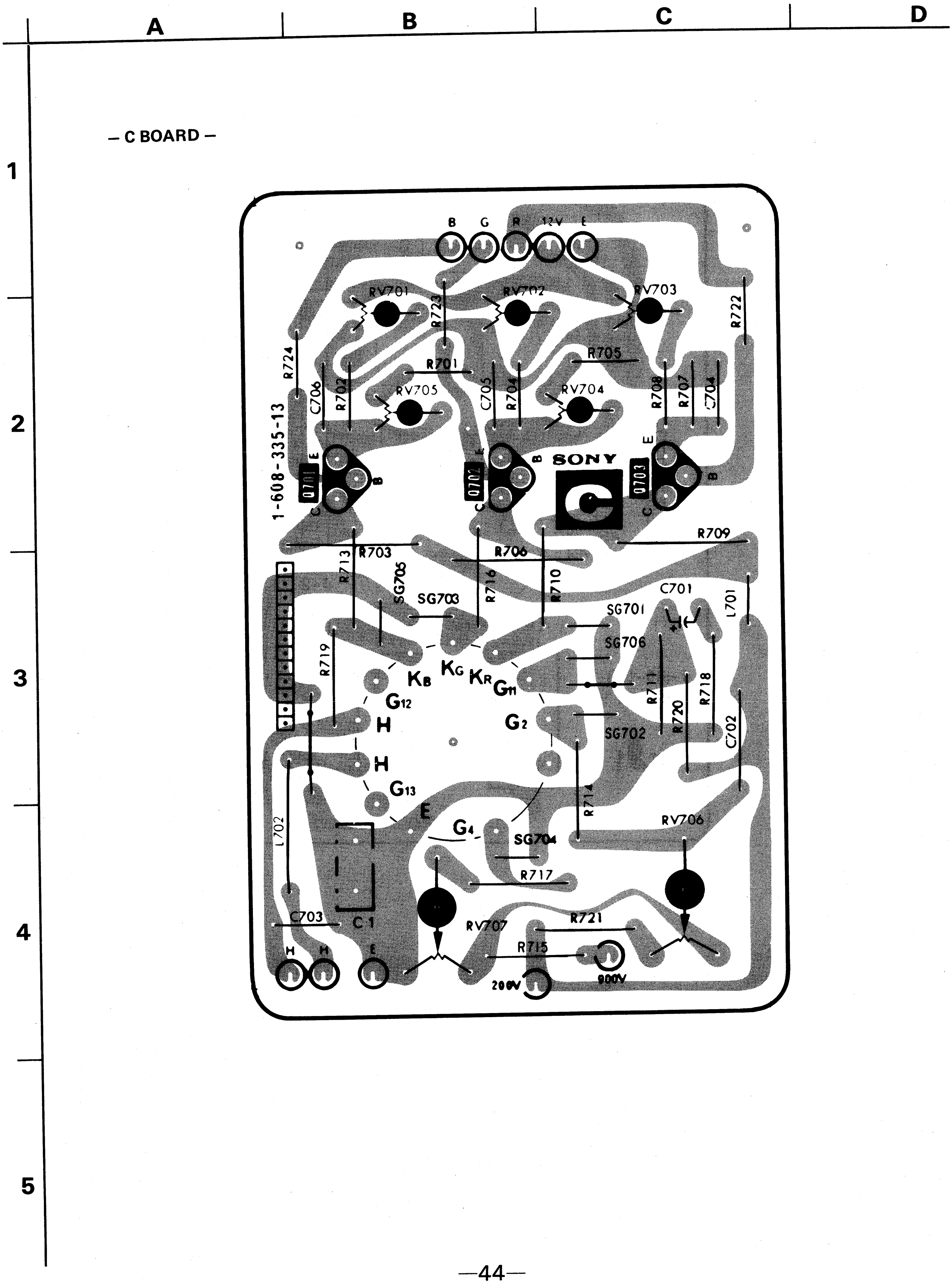
C906
C905
J-8
R
E
L
3
4
2
AUDIO VIDEO
LINE IN / OUT
J903
6
5
1
VIDEO
E
L
E
R
CTL
R
E
L
C901
R902
R901
C902
R903
2
5
4
C903
J-1
L
E
R
AUDIO
LINE OUT
REC OUT
J904
3
1
C904
J-2
E
R
E
L
J-3
ELNA-
F36
94V-0
LEFT
J902
EX
SPEAKER
RIGHT
J901
1-610-003-11
SONY
C908
C907
J1

– J2 BOARD –



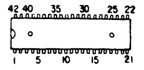
1-610-004-11
SONY
J2
R951
R952
J951
C952
C951
J-5
R
E
L
E
L
E
ELNA
F36
94V-0

– C BOARD –


A
B
C
D
1
2
3
4
5
B
G
R
12V
E
RV701
RV702
RV703
R723
R722
R724
R705
R701
C706
R702
RV705
C705
R704
RV704
R708
R707
C704
1-608-335-13
Q701
Q702
Q703
E
B
C
SONY
C
R709
R703
R706
R713
SG705
SG703
R716
R710
SG701
C701
L701
SG706
R719
KB
KG
KR
G11
G12
H
G2
SG702
R711
R720
R718
C702
H
G13
E
G4
SG704
R714
RV706
L702
R717
C703
C1
RV707
R721
R715
H
H
E
200V
900V

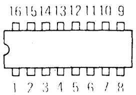
3-5. SEMICONDUCTORS

CX519-004P


42 40 35 30 25 22
1 5 10 15 21

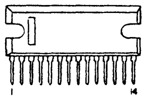
(Top view)

HD14053BP
TA7607AP
TA7630P
TDA1082
μPD4053BC

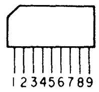

16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8

(Top view)

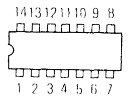
LA4440R



LA7920

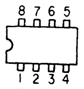


TDA4944
M58653P


14 13 12 11 10 9 8
1 2 3 4 5 6 7

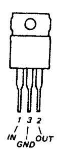
(Top view)

μPC4558C
NJM4558D

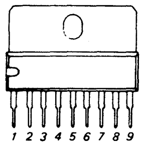


(Top view)

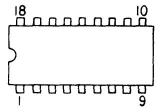
NJM7812B
μPC7805H


1 3 2
IN
GND
OUT

TDA4600-2

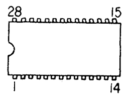


TDA2546A



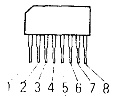
(Top view)

μPC1365C

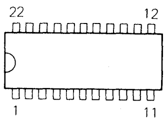


(Top view)

μPC1373H

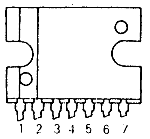


μPC1377C
TDA4940

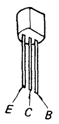


(Top view)

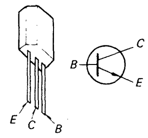
μPC1378H-L



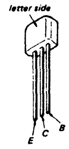
2SA733
2SA1015
2SA1026
2SC945
2SC1815
JA101
JC501



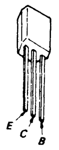
2SC634
2SC403C



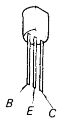
TDC144ES
2SA1175
2SC2785
2SC2785F


letter side
E C B

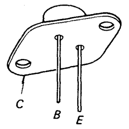
2SC403SP
2SC2458
2SC2458YLB
2SC2603



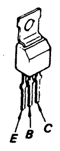
2SC1128
2SC2009



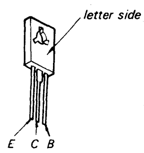
2SC1413SY
2SC1413A



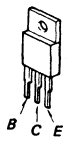
2SC2278



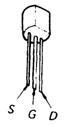
2SC2688


letter side
E C B

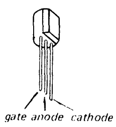
2SD1134



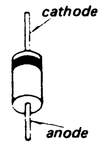
2SK107
2SK107-2
2SK107-3
2SK107-4



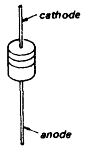
CR02AM-8


gate anode cathode

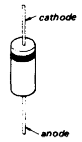
1N4148H
1S1555
1S2076
1S2473
1SS82
1SS133
1TT600
EM1Z
ERD28-06S
ERD28-08S
RD13EB2
US1035


cathode
anode

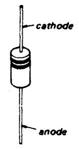
1SS119
1SS120
1SS148


cathode
anode

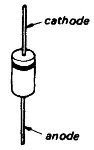
1T22
1T22A
1T261


cathode
anode

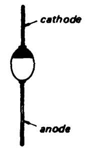
RH1A
SIB01-02
SIB01-02B


cathode
anode

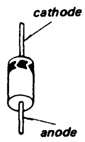
ERB12-02RK
GP08D


cathode
anode

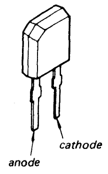
ERC26-15S


cathode
anode

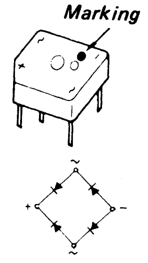
ERD29-04J


cathode
anode

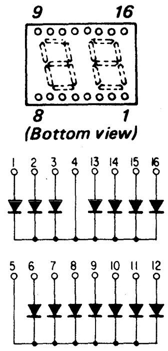
PH302B


cathode
anode

S3WB60S
S3WB60ZS

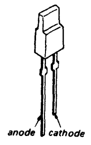


TLR320
SL-1222

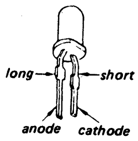

9
16
8
1
1 2 3 4 13 14 15 16
5 6 7 8 9 10 11 12

(Bottom view)

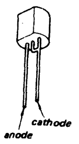
SLP161B


anode
cathode

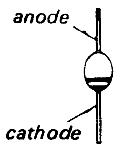
TLR147


long
short
anode
cathode

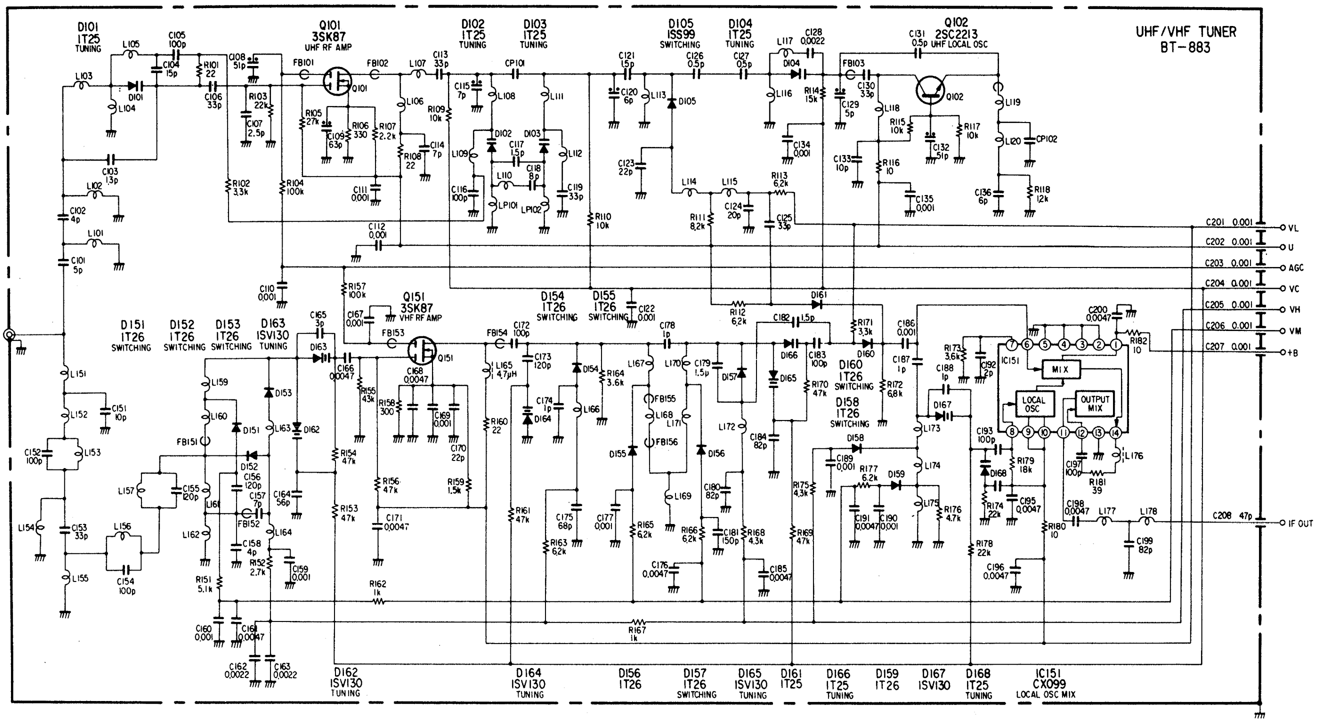
μPC574J


cathode
anode

V06C
V06J
V19B
V19C
V19E
V30N


anode
cathode

3-6. TUNER SCHEMATIC DIAGRAM
– UHF/VHF TUNER BT-883 –


UHF/VHF TUNER
BT-883
D101 1T25 TUNING
Q101 3SK87 UHF RF AMP
D102 1T25 TUNING
D103 1T25 TUNING
D105 1SS99 SWITCHING
D104 1T25 TUNING
Q102 2SC2213 UHF LOCAL OSC
J101 ANT
D151 1T26 SWITCHING
D152 1T26 SWITCHING
D153 1T26 SWITCHING
D163 1SV130 TUNING
Q151 3SK87 VHF RF AMP
D154 1T26 SWITCHING
D155 1T26 SWITCHING
D160 1T26 SWITCHING
D158 1T26 SWITCHING
IC151
MIX
LOCAL OSC
OUTPUT MIX
C201 0.001
C202 0.001
C203 0.001
C204 0.001
C205 0.001
C206 0.001
C207 0.001
C208 47p
VL
U
AGC
VC
VH
VM
+B
IF OUT
D162 1SV130 TUNING
D164 1SV130 TUNING
D156 1T26
D157 1T26 SWITCHING
D165 1SV130 TUNING
D161 1T25
D166 1T25 TUNING
D159 1T26
D167 1SV130
D168 1T25 TUNING
IC151 CX099 LOCAL OSC MIX

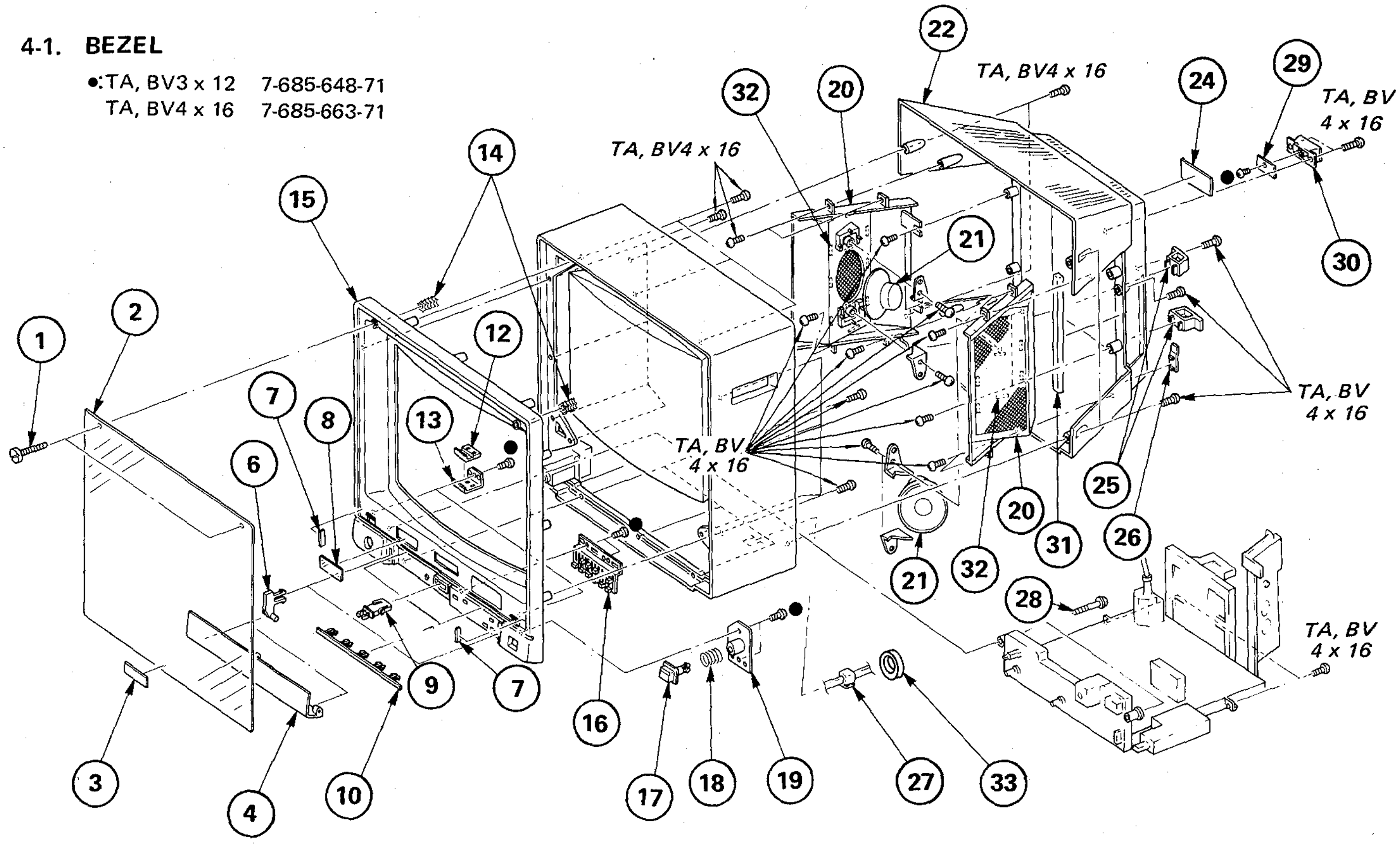
SECTION 4
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-1. BEZEL

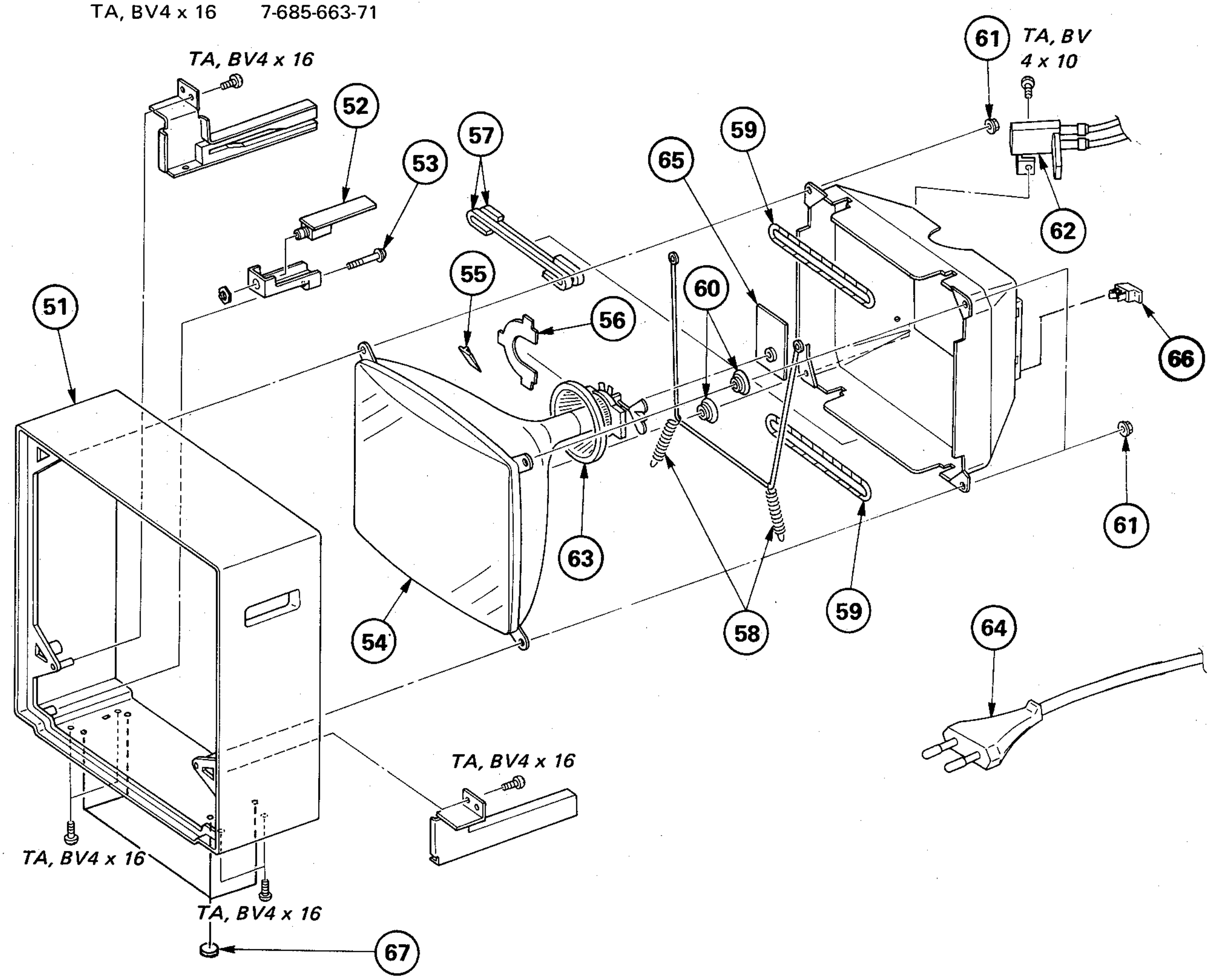
●:TA, BV3 x 12　7-685-648-71
TA, BV4 x 16　7-685-663-71



No.	Part No.	Description	Remark
1	4-336-851-11	SCREW, ORNAMENTAL	
2	4-366-806-00	FILTER, GLASS	
3	X-3701-084-0	EMBLEM (LARGE) ASSY, SONY	
4	4-362-225-11	DOOR, CONTROL	
6	4-362-203-00	SHAFT, DOOR	
7	4-341-961-00	SHEET (S)	
8	♠:4-362-289-00	PLATE, ORNAMENTAL, INDICATOR	
9	4-352-034-00	CATCHER, PUSH	
10	♠:4-362-218-00	STRIP, ORNAMENTAL	
12	4-336-808-00	PROTECTOR, FILTER	
13	♠:4-362-201-00	HOLDER, FILTER	
14	4-357-414-00	NUT (M4X20)	
15	X-4362-210-1	BEZEL ASSY	4 ~ 14
16	4-362-221-11	BUTTON, MULTI	
17	X-4362-201-0	BUTTON ASSY, POWER	
18	4-362-278-00	SPRING, COMPRESSION	
19	♠:4-362-206-00	HOLDER, POWER BUTTON	
20	X-4362-203-2	PLATE ASSY, BAFFLE, SPEAKER	
21	1-503-194-00	SPEAKER	
22	4-362-238-11	COVER, BACK	
24	♠:4-362-299-00	LABEL, MODEL NUMBER	
25	4-316-003-00	HOLDER, CORD	
26	4-329-127-00	CLAMP, CORD	
27	⚠.4-022-115-01	HOLDER, AC CORD	
28	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
29	♠:1-610-005-00	J3 BOARD	
30	4-357-437-00	COVER, TERMINAL, SPEAKER	
31	4-362-283-00	CUSHION	
32	4-858-753-00	SHEET, DAMPER	
33	1-543-179-00	RING, CORE	

4-2. CABINET

■ : TA, BV3 x 8 7-685-646-71
TA, BV4 x 10 7-685-660-71
TA, BV4 x 16 7-685-663-71

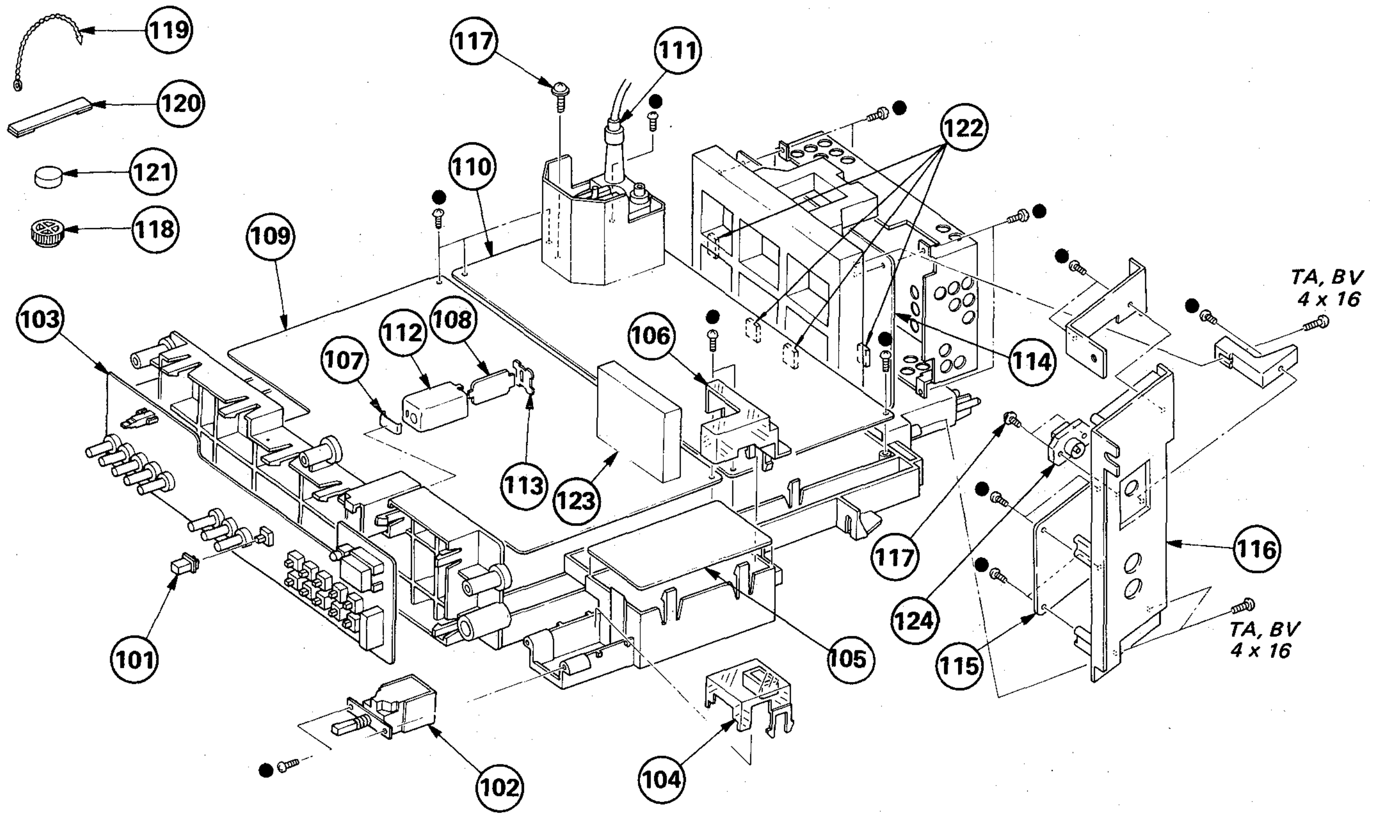

61
TA, BV 4 x 10
TA, BV4 x 16
52
57
59
65
53
62
55
60
56
51
66
63
61
54
58
59
64
TA, BV4 x 16
TA, BV4 x 16
TA, BV4 x 16
67

No.	Part No.	Description	Remark
51	X-4362-202-3	CABINET ASSY	66
52	♠:1-610-004-00	J2 BOARD	
53	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
54	⚠.8-738-704-05	CRT 520SB22	
55	3-703-003-00	SPACER, DY	
56	1-452-146-00	MAGNET, BMC	
57	4-312-539-00	CUSHION (A), BEZEL	
58	4-303-774-XX	SPRING	
59	⚠.1-426-087-61	COIL, DEGAUSSING	
60	4-348-567-00	WASHER, CRT POSITION	
61	4-306-034-00	FLANGE NUT, (B) 5MM	
62	⚠.1-228-714-21	RESISTOR ASSY, HIGH-VOLTAGE	
63	⚠.1-451-204-31	DEFLECTION YOKE	
64	⚠.1-551-270-31	CORD, POWER	
65	♠:A-1330-451-A	C BOARD, COMPLETE	
66	♠:3-659-681-00	HOLDER, PC BOARD	
67	4-809-913-XX	FOOT, F	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-3. CHASSIS

● : TA, BV3 x 12   7-685-648-71
TA, BV4 x 16   7-685-663-71


119
120
121
118
117
111
110
109
122
103
112
108
107
106
114
113
123
116
117
124
115
101
105
102
104
TA, BV
4 x 16
TA, BV
4 x 16

No.	Part No.	Description	Remark
101	4-362-211-00	PUSH BUTTON	
102	⚠.1-553-225-12	SWITCH, PUSH	
103	●:1-610-001-00	H BOARD	
104	●:4-362-248-00	COVER, POWER SWITCH	
105	●:1-608-337-00	F BOARD	
106	●:4-362-247-00	COVER, AC TERMINAL	
107	●:4-333-624-00	FILM (N), SPECIAL	
108	●:1-606-794-00	N BOARD	
109	●:A-1295-715-A	A BOARD, COMPLETE	
110	●:A-1345-385-A	D BOARD, COMPLETE	
111	⚠.1-439-303-00	TRANSFORMER ASSY, FLYBACK	
112	●:4-342-117-00	CASE, SHIELD (MAIN), R	
113	●:4-342-118-00	LID, SHIELD CASE, R	
114	●:A-1245-189-A	G BOARD, COMPLETE	
115	●:1-610-003-00	J1 BOARD	
116	4-362-242-01	PANEL, CONNECTOR	
117	4-304-496-00	HEAD, WASHER, TAPPING SCREW	
118	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
119	4-308-870-00	CLIP, LEAD WIRE	
120	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
121	1-452-032-00	MAGNET, DISK; 10MM ø	
122	4-858-753-00	SHEET, DAMPER	
123	⚠.1-463-421-21	TUNER, ET (BT-883)	
124	⚠.1-536-797-11	TERMINAL BOARD ASSY, ANTENNA	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

F **G**

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : µF, PF : µµF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : µH

Ref.No	Part No.	Description			Remark
	♠:1-608-337-00	F BOARD *******			
		CAPACITOR			
C651 ⚠	1-117-121-11	PAPER	0.22MF	20%	250V
C652	1-130-238-00	PAPER	0.22MF	20%	250V
		CONNECTOR			
F2	♠:1-506-348-XX	3P PLUG (L)			
F3	♠:1-506-348-XX	3P PLUG (L)			
F4	♠:1-506-348-XX	3P PLUG (L)			
F5	♠:1-508-765-00	3P PLUG (M)			
		FUSE			
F651 ⚠	1-532-350-11	FUSE, TIME-LAG 4A			
	1-533-149-00	HOLDER, FUSE, F651			
		RESISTOR			
R651 ⚠	1-202-724-51	SOLID	2.7M	10%	1/2W
		TRANSFORMER			
T651 ⚠	1-421-352-11	TRANSFORMER, FERRITE			
T652	1-421-592-00	TRANSFORMER, FERRITE			
		THERMISTOR			
THP651 ⚠	1-806-165-11	THERMISTOR (POSITIVE)			

****

Ref.No	Part No.	Description			Remark	
	♠:A-1245-189-A	G BOARD, COMPLETE *****************				
		CAPACITOR				
C601	1-161-964-00	CERAMIC	0.0047MF		250V	
C602	1-161-964-00	CERAMIC	0.0047MF		250V	
C603	1-161-964-00	CERAMIC	0.0047MF		250V	
C604	1-125-167-00	ELECT(BLOCK)	250MF		400V	
C605	1-102-050-00	CERAMIC	0.01MF		500V	
C606	1-129-706-00	FILM	0.0022MF	10%	630V	
C607	1-124-025-00	ELECT	100MF	20%	16V	
C609	1-102-959-00	CERAMIC	22PF	5%	50V	
C611	1-124-025-00	ELECT	100µF	20%	16V	
C612	1-123-353-00	ELECT	2.2MF	20%	50V	
C613	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C614	1-102-030-00	CERAMIC	330PF	10%	500V	
C615	1-123-323-00	ELECT	470MF	20%	16V	
C616	1-123-322-00	ELECT	330MF	20%	16V	
C617	1-123-333-00	ELECT	100MF	20%	25V	
C618	1-123-350-00	ELECT	2200MF	20%	35V	
C619	1-102-327-00	CERAMIC	330PF	15%	1.5KV	
C620	1-123-024-00	ELECT	33MF		160V	
C621	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C622	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C623	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C624	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C625	1-123-332-00	ELECT	47MF	20%	16V	
C626	1-102-030-00	CERAMIC	330PF	10%	500V	
C630	1-108-376-00	MYLAR	0.0082MF	10%	100V	
		DIODE				
D601	8-719-503-06	DIODE S3WB60Z				
D602	8-719-300-45	DIODE EM1Z				
D603	8-719-100-68	DIODE RD13E-B2				
D604	8-719-901-39	DIODE V06J				
D605	8-719-901-83	DIODE 1SS83				
D606	8-719-200-02	DIODE 10E2				
D607	8-719-200-02	DIODE 10E2				
D608	8-719-901-83	DIODE 1SS83				
D609	8-719-901-93	DIODE V19E				
D610	8-719-901-93	DIODE V19E				
D611	8-719-901-93	DIODE V19E				
D612	8-719-900-26	DIODE ERD29-08J				
D613	8-719-900-26	DIODE ERD29-08J				
		CONNECTOR				
G1	♠:1-506-348-XX	3P PLUG (L)				
G3	♠:1-508-765-00	3P PLUG (M)				
G4	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				
		IC				
IC601	8-759-046-00	IC TDA4600				
	♠:4-356-301-00	HEAT SINK (D), IC601				
		COIL				
L601	1-408-225-00	MICRO INDUCTOR 3.3UH				
L609	1-408-415-00	MICRO INDUCTOR 33UH				
L610	1-425-613-00	COIL, AIR-CORE, QF TYPE				
L611	1-459-215-00	CORE COIL 120UH				
L612	1-459-215-00	CORE COIL 120UH				
L613	1-459-215-00	CORE COIL 120UH				
L614	1-459-407-00	COIL, FERRITE CHOKE 30UH				
		TRANSISTOR				
Q601	8-719-000-28	THYRISTOR CR02AM-8				
Q602	8-729-300-60	TRANSISTOR 2SC1413-SY				
	3-701-609-00	BUSHING (B), TR, Q602				
	♠:4-314-938-01	RETAINER (TO-3), TRANSISTOR, Q602				
	♠:4-329-407-00	LUG, GROUND, Q602				
	♠:4-336-010-00	HEAT SINK, Q602				
	♠:4-362-210-00	SHEET (TO-3), Q602				
		RESISTOR				
R601	1-206-664-00	METAL OXIDE	1K	5%	2W	F
R602	1-244-933-00	CARBON	330K	5%	1/2W	

Ref.No	Part No.	Description				Remark
R603	1-244-929-00	CARBON	220K	5%	1/2W	
R604	1-206-519-00	METAL OXIDE	22	5%	3W	F
R605	1-212-356-00	METAL OXIDE	0.47	5%	1W	F
R606	1-246-981-00	CARBON	4.7	5%	1/8W	F
R607	1-247-095-00	METAL	33	5%	1/4W	
R608	1-215-172-00	METAL	6.8K	5%	1/4W	
R609	1-244-931-00	CARBON	270K	5%	1/2W	
R610	1-215-811-00	METAL	220K		1W	
R611	1-215-154-00	METAL	1.2K	5%	1/4W	
R612	1-215-178-00	METAL	12K	5%	1/4W	
R613	1-215-176-00	METAL	10K	5%	1/4W	
R614	1-215-170-00	METAL	5.6K	5%	1/4W	
R615	1-215-160-00	METAL	2.2K	5%	1/4W	
R616	1-213-125-00	METAL OXIDE	33	5%	1W	F
R617	1-247-636-00	CARBON	0.47	5%	1/8W	F
R618	1-247-636-00	CARBON	0.47	5%	1/8W	F
R619	1-217-465-00	FUSIBLE	0.47	5%	1W	F
R620	1-247-289-00	CARBON	8.2M	5%	1W	
R622	1-215-140-00	METAL	330	5%	1/4W	

VARIABLE RESISTOR

RV601	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K

TRANSFORMER

T601	⚠.1-421-560-12	TRANSFORMER, FERRITE (SRT)

THERMISTOR

TH601	⚠.1-800-820-12	THERMISTOR, POWER
THP601	⚠.1-806-449-21	THERMISTOR (POSITIVE)

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♠:A-1295-715-A A BOARD, COMPLETE
****

♠:1-555-706-00	CONNECTOR ASSY (2.5MM) 10P
♠:4-362-292-00	LID, UPPER, SHIELD CASE, VIF
♠:4-362-293-00	CASE (MAIN), SHIELD, VIF
♠:4-362-294-00	LID, BOTTOM, SHIELD CASE, VIF

CONNECTOR

Ref.No	Part No.	Description
A1	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
A2	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A3	♠:1-508-786-00	2P PLUG (M)
A4	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
A5	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
A6	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
A7	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A8	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
A9	♠:1-508-784-00	1P PLUG
A14	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A15	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM PITCH)
A16	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A17	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)
A18	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
A19	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)

CAPACITOR

Ref.No	Part No.	Description				Remark
C001	1-123-356-00	ELECT	10MF	20%	16V	
C002	1-123-356-00	ELECT	10MF	20%	16V	
C003	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C004	1-102-973-00	CERAMIC	100PF	5%	50V	
C005	1-102-959-00	CERAMIC	22PF	5%	50V	
C006	1-102-963-00	CERAMIC	33PF	5%	50V	
C007	1-123-356-00	ELECT	10MF	20%	50V	
C008	1-108-251-00	MYLAR	0.1MF	5%	50V	
C009	1-123-356-00	ELECT	10MF	20%	16V	
C010	1-123-356-00	ELECT	10MF	20%	50V	
C011	1-101-004-00	CERAMIC	0.01MF		50V	
C013	1-123-333-00	ELECT	100MF	20%	16V	
C014	1-102-114-00	CERAMIC	470PF	10%	50V	
C015	1-123-353-00	ELECT	2.2MF	20%	50V	
C016	1-123-333-00	ELECT	100MF	20%	16V	
C020	1-123-356-00	ELECT	10MF	20%	25V	
C100	1-110-175-00	MYLAR	0.1MF	10%	100V	
C101	1-110-175-00	MYLAR	0.1MF	10%	100V	
C102	1-123-356-00	ELECT	10MF	20%	25V	
C103	1-123-380-00	ELECT	1MF	20%	50V	
C104	1-123-380-00	ELECT	1MF	20%	50V	
C105	1-123-318-00	ELECT	33MF	20%	16V	
C106	1-102-963-00	CERAMIC	33PF	5%	50V	
C107	1-110-173-00	MYLAR	0.068MF	10%	100V	
C108	1-110-173-00	MYLAR	0.068MF	10%	100V	
C109	1-123-343-00	ELECT	33MF	20%	25V	
C110	1-123-380-00	ELECT	1MF	20%	50V	
C112	1-102-529-00	CERAMIC	100PF	5%	50V	
C113	1-102-530-00	CERAMIC	120PF	5%	50V	
C114	1-102-851-00	CERAMIC	15PF	5%	50V	
C115	1-102-523-00	CERAMIC	56PF	5%	50V	
C116	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C117	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C118	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C119	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C120	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C121	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C122	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C123	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C124	1-102-529-00	CERAMIC	100PF	5%	50V	
C125	1-102-518-00	CERAMIC	33PF	5%	50V	
C126	1-102-937-00	CERAMIC	4PF	0.25PF	50V	
C127	1-102-529-00	CERAMIC	100PF	5%	50V	
C128	1-102-518-00	CERAMIC	33PF	5%	50V	
C129	1-102-937-00	CERAMIC	4PF	0.25PF	50V	
C130	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C131	1-123-343-00	ELECT	33MF	20%	25V	
C132	1-123-379-00	ELECT	0.47MF	20%	50V	
C133	1-102-125-00	CERAMIC	0.0047MF	10%	50V	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A

Ref.No	Part No.	Description			Remark
C134	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C135	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C201	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C202	1-123-286-00	ELECT	0.33MF	20%	50V
C203	1-101-004-00	CERAMIC	0.01MF		50V
C204	1-101-361-00	CERAMIC	150PF	5%	50V
C205	1-130-014-00	FILM	470PF	5%	50V
C206	1-123-356-00	ELECT	10MF	20%	16V
C207	1-102-525-00	CERAMIC	68PF	5%	50V
C208	1-101-004-00	CERAMIC	0.01MF		50V
C209	1-101-004-00	CERAMIC	0.01MF		50V
C210	1-123-318-00	ELECT	33MF	20%	16V
C211	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C212	1-108-371-00	MYLAR	0.0033MF	10%	100V
C213	1-108-371-00	MYLAR	0.0033MF	10%	100V
C214	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C215	1-123-356-00	ELECT	10MF	20%	16V
C216	1-123-356-00	ELECT	10MF	20%	16V
C217	1-123-318-00	ELECT	33MF	20%	16V
C218	1-123-356-00	ELECT	10MF	20%	16V
C219	1-123-306-00	ELECT	47MF	20%	10V
C220	1-123-306-00	ELECT	47MF	20%	10V
C221	1-123-332-00	ELECT	47MF	20%	16V
C222	1-123-356-00	ELECT	10MF	20%	16V
C223	1-130-014-00	FILM	470PF	5%	50V
C224	1-101-004-00	CERAMIC	0.01MF		50V
C225	1-101-004-00	CERAMIC	0.01MF		50V
C226	1-102-513-00	CERAMIC	18PF	5%	50V
C227	1-102-513-00	CERAMIC	18PF	5%	50V
C228	1-108-570-00	MYLAR	0.0043MF	5%	50V
C229	1-130-626-00	FILM	0.033MF	5%	50V
C230	1-123-379-00	ELECT	0.47MF	20%	50V
C231	1-123-379-00	ELECT	0.47MF	20%	50V
C232	1-123-380-00	ELECT	1MF	20%	50V
C233	1-123-380-00	ELECT	1MF	20%	50V
C234	1-123-318-00	ELECT	33MF	20%	16V
C235	1-123-318-00	ELECT	33MF	20%	16V
C236	1-123-356-00	ELECT	10MF	20%	16V
C237	1-123-356-00	ELECT	10MF	20%	16V
C238	1-123-328-00	ELECT	4.7MF	20%	25V
C239	1-108-393-00	MYLAR	0.22MF	10%	100V
C240	1-123-379-00	ELECT	0.47MF	20%	50V
C241	1-123-322-00	ELECT	330MF	20%	16V
C242	1-123-354-00	ELECT	3.3MF	20%	50V
C243	1-123-354-00	ELECT	3.3MF	20%	50V
C244	1-123-332-00	ELECT	47MF	20%	16V
C245	1-123-380-00	ELECT	1MF	20%	50V
C246	1-123-380-00	ELECT	1MF	20%	50V
C247	1-123-356-00	ELECT	10MF	20%	16V
C248	1-123-356-00	ELECT	10MF	20%	16V
C249	1-110-186-00	MYLAR	0.0047MF	10%	400V
C250	1-110-176-00	MYLAR	0.12MF	10%	100V
C251	1-123-332-00	ELECT	47MF	20%	16V

Ref.No	Part No.	Description			Remark
C252	1-123-333-00	ELECT	100MF	20%	25V
C253	1-110-176-81	MYLAR	0.12MF	10%	100V
C254	1-110-186-00	MYLAR	0.0047MF	10%	400V
C255	1-123-332-00	ELECT	47MF	20%	16V
C256	1-123-306-00	ELECT	47MF	20%	6.3V
C257	1-123-447-00	ELECT	0.22MF	20%	50V
C258	1-123-447-00	ELECT	0.22MF	20%	50V
C259	1-123-306-00	ELECT	47MF	20%	6.3V
C260	1-123-321-00	ELECT	220MF	20%	16V
C261	1-123-338-00	ELECT	2200MF	20%	25V
C262	1-123-356-00	ELECT	10MF	20%	16V
C263	1-123-356-00	ELECT	10MF	20%	16V
C264	1-123-356-00	ELECT	10MF	20%	16V
C265	1-123-356-00	ELECT	10MF	20%	16V
C266	1-123-586-00	ELECT	0.1MF	20%	50V
C267	1-123-307-00	ELECT	100MF	20%	10V
C268	1-123-307-00	ELECT	100MF	20%	10V
C269	1-123-311-00	ELECT	1000MF	20%	10V
C270	1-123-311-00	ELECT	1000MF	20%	10V
C271	1-110-175-00	MYLAR	0.1MF	10%	100V
C272	1-110-175-00	MYLAR	0.1MF	10%	100V
C275	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C276	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C277	1-101-004-00	CERAMIC	0.01MF		50V
C278	1-123-379-00	ELECT	0.47MF	20%	50V
C279	1-108-371-00	MYLAR	0.0033MF	10%	100V
C280	1-108-371-00	MYLAR	0.0033MF	10%	100V
C281	1-110-182-00	MYLAR	0.022MF	10%	250V
C282	1-110-182-00	MYLAR	0.022MF	10%	250V
C283	1-123-316-00	ELECT	10µF	20%	16V
C284	1-123-356-00	ELECT	10MF	20%	25V
C301	1-123-332-00	ELECT	47MF	20%	16V
C302	1-123-297-00	ELECT	330MF	20%	6.3V
C303	1-101-884-00	CERAMIC	56PF	5%	50V
C304	1-123-318-00	ELECT	33MF	20%	16V
C305	1-123-318-00	ELECT	33MF	20%	16V
C306	1-123-379-00	ELECT	0.47MF	20%	50V
C307	1-123-332-00	ELECT	47MF	20%	16V
C308	1-102-959-00	CERAMIC	22PF	5%	50V
C309	1-101-880-00	CERAMIC	47PF	5%	50V
C310	1-102-678-00	CERAMIC	100PF	5%	50V
C311	1-123-356-00	ELECT	10MF	20%	16V
C312	1-123-343-00	ELECT	33MF	20%	25V
C313	1-101-888-00	CERAMIC	68PF	5%	50V
C314	1-102-953-00	CERAMIC	18PF	5%	50V
C315	1-102-525-00	CERAMIC	68PF	5%	50V
C316	1-110-171-00	MYLAR	0.047MF	10%	100V
C317	1-123-379-00	ELECT	0.47MF	20%	50V
C318	1-110-171-00	MYLAR	0.047MF	10%	100V
C319	1-102-971-00	CERAMIC	82PF	5%	50V
C320	1-102-973-00	CERAMIC	100PF	5%	50V
C321	1-101-004-00	CERAMIC	0.01MF		50V
C322	1-101-004-00	CERAMIC	0.01MF		50V
C323	1-123-343-00	ELECT	33MF	20%	25V

Ref.No	Part No.	Description			Remark
C324	1-123-343-00	ELECT	33MF	20%	25V
C325	1-101-004-00	CERAMIC	0.01MF		50V
C326	1-123-379-00	ELECT	0.47MF	20%	50V
C327	1-123-354-00	ELECT	3.3MF	20%	50V
C328	1-102-887-00	CERAMIC	47PF	5%	50V
C329	1-102-889-00	CERAMIC	39PF	5%	50V
C330	1-102-678-00	CERAMIC	100PF	5%	50V
C331	1-102-850-00	CERAMIC	56PF	5%	50V
C332	1-123-353-00	ELECT	2.2MF	20%	50V
C333	1-131-371-00	TANTALUM	10MF	20%	16V
C334	1-101-004-00	CERAMIC	0.01MF		50V
C335	1-123-343-00	ELECT	33MF	20%	25V
C336	1-110-175-00	MYLAR	0.1MF	10%	100V
C337	1-123-380-00	ELECT	1MF	20%	50V
C338	1-101-004-00	CERAMIC	0.01MF		50V
C339	1-123-380-00	ELECT	1MF	20%	50V
C340	1-123-380-00	ELECT	1MF	20%	50V
C341	1-102-971-00	CERAMIC	82PF	5%	50V
C342	1-110-190-00	MYLAR	0.01MF	10%	400V
C343	1-123-380-00	ELECT	1MF	20%	50V
C344	1-102-963-00	CERAMIC	33PF	5%	50V
C345	1-101-884-00	CERAMIC	56PF	5%	50V
C346	1-102-963-00	CERAMIC	33PF	5%	50V

FILTER

Ref.No	Part No.	Description
CF001	1-527-790-00	OSCILLATOR, CERAMIC
CF201	1-527-840-00	FILTER, CERAMIC
CF202	1-527-839-00	FILTER, CERAMIC
CF301	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF302	1-409-332-00	CERAMIC TRAP (4.5MHZ)

DIODE

Ref.No	Part No.	Description
D001	8-719-101-02	DIODE RD30E-B4
D002	8-719-102-58	DIODE RD3.6E-N2
D003	8-759-157-40	IC UPC574J
D004	8-719-100-65	DIODE RD12E-B2
D102	8-719-911-19	DIODE 1SS119
D201	8-719-100-42	DIODE RD6.8E-B3
D202	8-719-911-19	DIODE 1SS119
D203	8-719-911-19	DIODE 1SS119
D204	8-719-911-19	DIODE 1SS119
D205	8-719-911-19	DIODE 1SS119
D206	8-719-911-19	DIODE 1SS119
D207	8-719-100-65	DIODE RD12E-B2
D208	8-719-911-19	DIODE 1SS119
D209	8-719-911-19	DIODE 1SS119
D210	8-719-911-19	DIODE 1SS119
D301	8-719-026-11	DIODE 1T261
D302	8-719-026-11	DIODE 1T261
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119

Ref.No	Part No.	Description	Remark

DELAY LINE

Ref.No	Part No.	Description	Remark
DL301	1-415-330-00	DELAY LINE, Y	
DL302	1-415-185-12	DELAY LINE (1H)	

CONNECTOR

Ref.No	Part No.	Description	Remark
F7	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	

IC

Ref.No	Part No.	Description	Remark
IC001	8-759-600-63	IC CX519-004P	
IC002	8-759-600-66	IC M58653P	
IC003	8-759-171-05	IC UPC7805H	
IC101	8-759-800-12	IC LA7920	
IC102	8-759-276-07	IC TA7607AP	
IC201	8-759-909-54	IC TDA2546A	
IC202	8-759-007-54	IC TDA4940	
IC203	8-759-007-55	IC TDA4944	
IC204	8-759-140-53	IC UPD4053BC	
IC205	8-759-145-58	IC UPC4558C	
IC206	8-759-276-30	IC TA7630P	
IC207	8-759-800-15	IC LA4440R	
IC301	8-759-113-65	IC UPC1365C	

COIL

Ref.No	Part No.	Description	Remark
L101	1-408-623-00	MICRO INDUCTOR 470UH	
L102	1-404-476-00	COIL, IF	
L103	1-404-476-00	COIL, IF	
L105	1-408-593-00	MICRO INDUCTOR 1.5UH	
L107	1-404-427-00	VIFT	
L108	1-404-427-00	VIFT	
L109	1-408-600-00	MICRO INDUCTOR 5.6UH	
L110	1-408-600-00	MICRO INDUCTOR 5.6UH	
L201	1-404-477-00	COIL, IF	
L202	1-404-476-00	COIL, IF	
L203	1-408-597-00	MICRO INDUCTOR 3.3UH	
L204	1-408-600-00	MICRO INDUCTOR 5.6UH	
L205	1-404-477-00	COIL, IF	
L206	1-408-947-00	MICRO INDUCTOR 2.2MMH	
L301	1-408-605-00	MICRO INDUCTOR 15UH	
L303	1-408-600-00	MICRO INDUCTOR 5.6UH	
L304	1-408-942-00	MICRO INDUCTOR 3.3MMH	
L305	1-408-607-00	MICRO INDUCTOR 22UH	
L306	1-408-602-00	MICRO INDUCTOR 8.2UH	
L307	1-408-607-00	MICRO INDUCTOR 22UH	
L308	1-408-602-00	MICRO INDUCTOR 8.2UH	
L309	1-408-603-00	MICRO INDUCTOR 10UH	
L310	1-408-243-00	MICRO INDUCTOR 12MMH	
L311	1-408-603-00	MICRO INDUCTOR 10UH	
L312	1-408-608-00	MICRO INDUCTOR 27UH	

CONNECTOR

Ref.No	Part No.	Description	Remark
M12	▲:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	

A

Ref.No	Part No.	Description	Remark
		TRANSISTOR	
Q001	8-729-603-50	TRANSISTOR 2SC403SP	
Q002	8-729-245-83	TRANSISTOR 2SC2458	
Q003	8-729-245-83	TRANSISTOR 2SC2458	
Q004	8-729-245-83	TRANSISTOR 2SC2458	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q101	8-729-245-83	TRANSISTOR 2SC2458	
Q102	8-725-300-00	TRANSISTOR 2SC2009	
Q201	8-729-245-83	TRANSISTOR 2SC2458	
Q202	8-729-117-54	TRANSISTOR 2SA1175	
Q203	8-729-245-83	TRANSISTOR 2SC2458	
Q204	8-729-245-83	TRANSISTOR 2SC2458	
Q205	8-729-245-83	TRANSISTOR 2SC2458	
Q206	8-729-245-83	TRANSISTOR 2SC2458	
Q207	8-729-245-83	TRANSISTOR 2SC2458	
Q208	8-729-900-89	TRANSISTOR DTC144ES	
Q209	8-729-900-89	TRANSISTOR DTC144ES	
Q210	8-729-900-89	TRANSISTOR DTC144ES	
Q301	8-729-245-83	TRANSISTOR 2SC2458	
Q302	8-729-245-83	TRANSISTOR 2SC2458	
Q303	8-729-117-54	TRANSISTOR 2SA1175	
Q304	8-729-117-54	TRANSISTOR 2SA1175	
Q305	8-729-245-83	TRANSISTOR 2SC2458	
Q306	8-729-245-83	TRANSISTOR 2SC2458	
Q307	8-729-117-54	TRANSISTOR 2SA1175	
Q308	8-729-245-83	TRANSISTOR 2SC2458	
Q309	8-769-200-30	TRANSISTOR 2SK107-3	
Q310	8-729-245-83	TRANSISTOR 2SC2458	
Q311	8-729-117-54	TRANSISTOR 2SA1175	
Q312	8-729-245-83	TRANSISTOR 2SC2458	
Q313	8-729-117-54	TRANSISTOR 2SA1175	
Q314	8-729-245-83	TRANSISTOR 2SC2458	
Q315	8-729-245-83	TRANSISTOR 2SC2458	
		RESISTOR	
R001	1-247-831-00	CARBON 1K 5% 1/6W	
R002	1-247-841-00	CARBON 2.7K 5% 1/6W	
R003	1-247-831-00	CARBON 1K 5% 1/6W	
R004	1-247-841-00	CARBON 2.7K 5% 1/6W	
R005	1-247-857-00	CARBON 12K 5% 1/6W	
R006	1-247-871-00	CARBON 47K 5% 1/6W	
R007	1-247-863-00	CARBON 22K 5% 1/6W	
R008	1-247-863-00	CARBON 22K 5% 1/6W	
R009	1-247-863-00	CARBON 22K 5% 1/6W	
R010	1-247-863-00	CARBON 22K 5% 1/6W	
R011	1-247-831-00	CARBON 1K 5% 1/6W	
R012	1-247-863-00	CARBON 22K 5% 1/6W	
R013	1-247-863-00	CARBON 22K 5% 1/6W	
R014	1-247-847-00	CARBON 4.7K 5% 1/6W	
R015	1-247-663-00	CARBON 1.5K 5% 1/4W	F
R016	1-247-863-00	CARBON 22K 5% 1/6W	
R017	1-247-863-00	CARBON 22K 5% 1/6W	
R018	1-247-663-00	CARBON 1.5K 5% 1/4W	F
R019	1-247-863-00	CARBON 22K 5% 1/6W	
R020	1-247-839-00	CARBON 2.2K 5% 1/6W	
R021	1-247-863-00	CARBON 22K 5% 1/6W	
R022	1-247-871-00	CARBON 47K 5% 1/6W	
R023	1-247-875-00	CARBON 68K 5% 1/6W	
R024	1-247-863-00	CARBON 22K 5% 1/6W	
R025	1-247-871-00	CARBON 47K 5% 1/6W	
R026	1-247-847-00	CARBON 4.7K 5% 1/6W	
R027	1-247-855-00	CARBON 10K 5% 1/6W	
R028	1-247-855-00	CARBON 10K 5% 1/6W	
R029	1-247-871-00	CARBON 47K 5% 1/6W	
R030	1-247-859-00	CARBON 15K 5% 1/6W	
R031	1-247-871-00	CARBON 47K 5% 1/6W	
R032	1-247-847-00	CARBON 4.7K 5% 1/6W	
R033	1-247-863-00	CARBON 22K 5% 1/6W	
R034	1-247-871-00	CARBON 47K 5% 1/6W	
R035	1-247-807-00	CARBON 100 5% 1/6W	
R036	1-247-807-00	CARBON 100 5% 1/6W	
R038	1-247-831-00	CARBON 1K 5% 1/6W	
R039	1-247-831-00	CARBON 1K 5% 1/6W	
R040	1-247-831-00	CARBON 1K 5% 1/6W	
R044	1-247-815-00	CARBON 220 5% 1/6W	
R045	1-247-815-00	CARBON 220 5% 1/6W	
R046	1-247-815-00	CARBON 220 5% 1/6W	
R047	1-247-815-00	CARBON 220 5% 1/6W	
R048	1-247-815-00	CARBON 220 5% 1/6W	
R049	1-247-815-00	CARBON 220 5% 1/6W	
R050	1-247-815-00	CARBON 220 5% 1/6W	
R051	1-247-799-00	CARBON 47 5% 1/6W	
R052	1-247-799-00	CARBON 47 5% 1/6W	
R053	1-247-799-00	CARBON 47 5% 1/6W	
R054	1-247-831-00	CARBON 1K 5% 1/6W	
R055	1-247-831-00	CARBON 1K 5% 1/6W	
R056	1-247-119-00	CARBON 330 5% 1/4W	F
R101	1-247-839-00	CARBON 2.2K 5% 1/6W	
R102	1-247-839-00	CARBON 2.2K 5% 1/6W	
R104	1-247-891-00	CARBON 330K 5% 1/6W	
R105	1-247-843-00	CARBON 3.3K 5% 1/6W	
R106	1-247-867-00	CARBON 33K 5% 1/6W	
R107	1-247-877-00	CARBON 82K 5% 1/6W	
R108	1-247-886-00	CARBON 200K 5% 1/6W	
R109	1-247-847-00	CARBON 4.7K 5% 1/6W	
R110	1-247-845-00	CARBON 3.9K 5% 1/6W	
R111	1-247-815-00	CARBON 220 5% 1/6W	
R112	1-247-831-00	CARBON 1K 5% 1/6W	
R113	1-247-815-00	CARBON 220 5% 1/6W	
R114	1-247-837-00	CARBON 1.8K 5% 1/6W	
R115	1-247-841-00	CARBON 2.7K 5% 1/6W	
R117	1-247-835-00	CARBON 1.5K 5% 1/6W	
R118	1-247-901-00	CARBON 820K 5% 1/6W	
R151	1-247-879-00	CARBON 100K 5% 1/6W	
R152	1-247-879-00	CARBON 100K 5% 1/6W	

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Ref.No	Part No.	Description				Remark
R153	1-247-863-00	CARBON	22K	5%	1/6W	
R154	1-247-857-00	CARBON	12K	5%	1/6W	
R202	1-247-829-00	CARBON	820	5%	1/6W	
R203	1-247-829-00	CARBON	820	5%	1/6W	
R204	1-247-829-00	CARBON	820	5%	1/6W	
R205	1-247-863-00	CARBON	22K	5%	1/6W	
R206	1-247-847-00	CARBON	4.7K	5%	1/6W	
R207	1-247-877-00	CARBON	82K	5%	1/6W	
R208	1-247-831-00	CARBON	1K	5%	1/6W	
R209	1-247-869-00	CARBON	39K	5%	1/6W	
R211	1-247-839-00	CARBON	2.2K	5%	1/6W	
R212	1-247-871-00	CARBON	47K	5%	1/6W	
R213	1-247-819-00	CARBON	330	5%	1/6W	
R214	1-247-819-00	CARBON	330	5%	1/6W	
R215	1-247-839-00	CARBON	2.2K	5%	1/6W	
R216	1-247-865-00	CARBON	27K	5%	1/6W	
R217	1-247-863-00	CARBON	22K	5%	1/6W	
R219	1-247-879-00	CARBON	100K	5%	1/6W	
R220	1-247-879-00	CARBON	100K	5%	1/6W	
R221	1-247-879-00	CARBON	100K	5%	1/6W	
R222	1-247-879-00	CARBON	100K	5%	1/6W	
R223	1-247-831-00	CARBON	1K	5%	1/6W	
R224	1-247-831-00	CARBON	1K	5%	1/6W	
R225	1-247-831-00	CARBON	1K	5%	1/6W	
R226	1-247-831-00	CARBON	1K	5%	1/6W	
R227	1-247-863-00	CARBON	22K	5%	1/6W	
R228	1-246-993-00	CARBON	470	5%	1/8W	F
R229	1-247-835-00	CARBON	1.5K	5%	1/6W	
R230	1-247-835-00	CARBON	1.5K	5%	1/6W	
R231	1-247-831-00	CARBON	1K	5%	1/6W	
R232	1-247-831-00	CARBON	1K	5%	1/6W	
R238	1-247-855-00	CARBON	10K	5%	1/6W	
R239	1-247-855-00	CARBON	10K	5%	1/6W	
R240	1-247-879-00	CARBON	100K	5%	1/6W	
R241	1-247-879-00	CARBON	100K	5%	1/6W	
R242	1-247-879-00	CARBON	100K	5%	1/6W	
R243	1-247-879-00	CARBON	100K	5%	1/6W	
R244	1-247-895-00	CARBON	470K	5%	1/6W	
R246	1-247-887-00	CARBON	220K	5%	1/6W	
R247	1-247-887-00	CARBON	220K	5%	1/6W	
R248	1-247-855-00	CARBON	10K	5%	1/6W	
R249	1-247-855-00	CARBON	10K	5%	1/6W	
R250	1-247-895-00	CARBON	470K	5%	1/6W	
R251	1-247-848-00	CARBON	5.1K	5%	1/6W	
R252	1-247-838-00	CARBON	2K	5%	1/6W	
R253	1-247-877-00	CARBON	82K	5%	1/6W	
R254	1-247-855-00	CARBON	10K	5%	1/6W	
R255	1-247-855-00	CARBON	10K	5%	1/6W	
R256	1-247-839-00	CARBON	2.2K	5%	1/6W	
R257	1-247-855-00	CARBON	10K	5%	1/6W	
R258	1-247-807-00	CARBON	100	5%	1/8W	F
R259	1-247-887-00	CARBON	220K	5%	1/6W	
R260	1-247-876-00	CARBON	75K	5%	1/6W	
R261	1-247-869-00	CARBON	39K	5%	1/6W	
R262	1-247-855-00	CARBON	10K	5%	1/6W	
R263	1-247-857-00	CARBON	12K	5%	1/6W	
R264	1-247-879-00	CARBON	100K	5%	1/6W	
R265	1-247-879-00	CARBON	100K	5%	1/6W	
R266	1-247-871-00	CARBON	47K	5%	1/6W	
R270	1-247-855-00	CARBON	10K	5%	1/6W	
R271	1-247-855-00	CARBON	10K	5%	1/6W	
R272	1-247-855-00	CARBON	10K	5%	1/6W	
R273	1-247-855-00	CARBON	10K	5%	1/6W	
R274	1-247-835-00	CARBON	1.5K	5%	1/6W	
R275	1-247-887-00	CARBON	220K	5%	1/6W	
R276	1-247-887-00	CARBON	220K	5%	1/6W	
R277	1-247-855-00	CARBON	10K	5%	1/6W	
R278	1-247-855-00	CARBON	10K	5%	1/6W	
R279	1-247-825-00	CARBON	560	5%	1/6W	
R280	1-247-825-00	CARBON	560	5%	1/6W	
R281	1-247-775-00	CARBON	4.7	5%	1/6W	
R282	1-247-775-00	CARBON	4.7	5%	1/6W	
R283	1-247-871-00	CARBON	47K	5%	1/6W	
R284	1-247-847-00	CARBON	4.7K	5%	1/6W	
R285	1-247-847-00	CARBON	4.7K	5%	1/6W	
R301	1-247-805-00	CARBON	82	5%	1/6W	
R302	1-247-805-00	CARBON	82	5%	1/6W	
R303	1-247-821-00	CARBON	390	5%	1/6W	
R304	1-247-819-00	CARBON	330	5%	1/6W	
R305	1-247-863-00	CARBON	22K	5%	1/6W	
R306	1-247-851-00	CARBON	6.8K	5%	1/6W	
R307	1-247-833-00	CARBON	1.2K	5%	1/6W	
R308	1-247-831-00	CARBON	1K	5%	1/6W	
R309	1-247-867-00	CARBON	33K	5%	1/6W	
R310	1-247-871-00	CARBON	47K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R312	1-247-813-00	CARBON	180	5%	1/6W	
R313	1-247-831-00	CARBON	1K	5%	1/6W	
R314	1-247-799-00	CARBON	47	5%	1/6W	
R316	1-247-855-00	CARBON	10K	5%	1/6W	
R317	1-247-818-00	CARBON	300	5%	1/6W	
R318	1-247-859-00	CARBON	15K	5%	1/6W	
R319	1-247-835-00	CARBON	1.5K	5%	1/6W	
R320	1-247-831-00	CARBON	1K	5%	1/6W	
R321	1-247-831-00	CARBON	1K	5%	1/6W	
R322	1-247-821-00	CARBON	390	5%	1/6W	
R324	1-247-831-00	CARBON	1K	5%	1/6W	
R325	1-247-831-00	CARBON	1K	5%	1/6W	
R326	1-247-833-00	CARBON	1.2K	5%	1/6W	
R327	1-247-835-00	CARBON	1.5K	5%	1/6W	
R328	1-247-835-00	CARBON	1.5K	5%	1/6W	
R329	1-247-831-00	CARBON	1K	5%	1/6W	
R330	1-247-829-00	CARBON	820	5%	1/6W	
R331	1-247-865-00	CARBON	27K	5%	1/6W	
R332	1-247-865-00	CARBON	27K	5%	1/6W	
R333	1-247-839-00	CARBON	2.2K	5%	1/6W	
R334	1-247-815-00	CARBON	220	5%	1/6W	

A C

Ref.No	Part No.	Description	Remark
R335	1-247-821-00	CARBON 390 5% 1/6W	
R336	1-247-815-00	CARBON 220 5% 1/6W	
R337	1-247-821-00	CARBON 390 5% 1/6W	
R338	1-247-823-00	CARBON 470 5% 1/6W	
R339	1-247-863-00	CARBON 22K 5% 1/6W	
R340	1-247-857-00	CARBON 12K 5% 1/6W	
R341	1-247-847-00	CARBON 4.7K 5% 1/6W	
R342	1-247-831-00	CARBON 1K 5% 1/6W	
R343	1-247-879-00	CARBON 100K 5% 1/6W	
R344	1-247-807-00	CARBON 100 5% 1/6W	
R345	1-247-855-00	CARBON 10K 5% 1/6W	
R346	1-247-863-00	CARBON 22K 5% 1/6W	
R347	1-247-887-00	CARBON 220K 5% 1/6W	
R348	1-247-839-00	CARBON 2.2K 5% 1/6W	
R349	1-247-851-00	CARBON 6.8K 5% 1/6W	
R350	1-247-877-00	CARBON 82K 5% 1/6W	
R351	1-247-843-00	CARBON 3.3K 5% 1/6W	
R352	1-247-831-00	CARBON 1K 5% 1/6W	
R353	1-247-851-00	CARBON 6.8K 5% 1/6W	
R354	1-247-849-00	CARBON 5.6K 5% 1/6W	
R355	1-247-839-00	CARBON 2.2K 5% 1/6W	
R356	1-247-843-00	CARBON 3.3K 5% 1/6W	
R357	1-247-855-00	CARBON 10K 5% 1/6W	
R358	1-247-859-00	CARBON 15K 5% 1/6W	
R359	1-247-859-00	CARBON 15K 5% 1/6W	
R360	1-247-859-00	CARBON 15K 5% 1/6W	
R361	1-247-843-00	CARBON 3.3K 5% 1/6W	
R362	1-247-871-00	CARBON 47K 5% 1/6W	
R363	1-247-903-00	CARBON 1M 5% 1/6W	
R364	1-247-851-00	CARBON 6.8K 5% 1/6W	
R365	1-247-885-00	CARBON 180K 5% 1/6W	
R366	1-247-849-00	CARBON 5.6K 5% 1/6W	
R367	1-247-807-00	CARBON 100 5% 1/6W	
R368	1-247-819-00	CARBON 330 5% 1/6W	
R369	1-247-819-00	CARBON 330 5% 1/6W	
R370	1-247-819-00	CARBON 330 5% 1/6W	
R371	1-247-843-00	CARBON 3.3K 5% 1/6W	
R372	1-247-843-00	CARBON 3.3K 5% 1/6W	
R373	1-247-843-00	CARBON 3.3K 5% 1/6W	
R374	1-247-855-00	CARBON 10K 5% 1/6W	
R375	1-247-807-00	CARBON 100 5% 1/6W	
R376	1-247-807-00	CARBON 100 5% 1/6W	
R377	1-247-871-00	CARBON 47K 5% 1/6W	
R378	1-247-839-00	CARBON 2.2K 5% 1/6W	
R379	1-247-839-00	CARBON 2.2K 5% 1/6W	
R380	1-247-841-00	CARBON 2.7K 5% 1/6W	
R381	1-247-831-00	CARBON 1K 5% 1/6W	
R382	1-247-828-00	CARBON 750 5% 1/6W	
R383	1-247-831-00	CARBON 1K 5% 1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV101	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV201	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
RV202	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
RV301	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV302	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K	
RV303	1-228-719-00	RES, ADJ, CERAMIC CARBON 470	
RV304	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV305	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	
RV306	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K	

FILTER

Ref.No	Part No.	Description
SF101	1-404-438-00	FILTER, SAW
SF201	♠:4-362-287-00	SHIELD, SAWF

TRANSFORMER

Ref.No	Part No.	Description
T301	1-426-121-00	DAT

TUNER

Ref.No	Part No.	Description
TU101	⚠ 1-463-421-21	TUNER, ET (BT-883)

CRYSTAL

Ref.No	Part No.	Description
X301	1-527-588-21	OSCILLATOR, CRYSTAL

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Ref.No	Part No.	Description
	♠:A-1330-451-A	C BOARD, COMPLETE *****************
	♠:1-608-335-00	C BOARD
	1-526-616-00	SOCKET, CRT
	♠:4-362-279-00	SPACER, TR

CONNECTOR

Ref.No	Part No.	Description
A5	♠:1-556-699-00	CONNECTOR ASSY (2.5MM) 6P
C1	♠:1-508-786-00	2P PLUG (M)

CAPACITOR

Ref.No	Part No.	Description
C701	1-123-356-00	ELECT 10MF 20% 50V
C702	1-129-737-00	FILM 0.047MF 20% 630V
C703	1-102-249-00	CERAMIC 680PF 20% 2KV
C704	1-161-316-00	CERAMIC 270PF 10% 50V
C705	1-161-314-00	CERAMIC 180PF 10% 50V
C706	1-161-314-00	CERAMIC 180PF 10% 50V

CONNECTOR

Ref.No	Part No.	Description
D5	♠:1-555-948-00	CONNECTOR ASSY, MINIATURE 5P

COIL

Ref.No	Part No.	Description
L701	1-407-753-00	MICRO INDUCTOR 180UH
L702	1-407-556-00	CHOKE COIL 6.8UH

TRANSISTOR

Ref.No	Part No.	Description
Q701	8-729-322-78	TRANSISTOR 2SC2278
Q702	8-729-322-78	TRANSISTOR 2SC2278

NOTE:

> The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description				Remark
Q703	8-729-322-78	TRANSISTOR 2SC2278				

RESISTOR

Ref.No	Part No.	Description				Remark
R701	1-215-134-00	METAL	180	5%	1/4W	
R702	1-215-168-00	METAL	4.7K	5%	1/4W	
R703	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R704	1-215-168-00	METAL	4.7K	5%	1/4W	
R705	1-215-134-00	METAL	180	5%	1/4W	
R706	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R707	1-215-138-00	METAL	270	5%	1/4W	
R708	1-215-168-00	METAL	4.7K	5%	1/4W	
R709	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R710	1-202-824-00	SOLID	3.3K		1/2W	
R711	1-202-837-00	SOLID	82K		1/2W	
R713	1-202-824-00	SOLID	3.3K		1/2W	
R714	1-202-609-00	SOLID	33K		1/2W	
R715	1-202-841-00	SOLID	180K		1/2W	
R716	1-202-824-00	SOLID	3.3K		1/2W	
R717	1-202-719-00	SOLID	1M	10%	1/2W	
R718	1-202-549-00	SOLID	100	10%	1/2W	
R719	1-202-842-00	SOLID	220K		1/2W	
R720	1-202-846-00	SOLID	470K		1/2W	
R721	1-202-848-00	SOLID	680K		1/2W	
R722	1-215-128-00	METAL	100	5%	1/4W	
R723	1-215-128-00	METAL	100	5%	1/4W	
R724	1-215-128-00	METAL	100	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV701	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV702	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV703	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV704	1-228-717-00	RES, ADJ, CERAMIC CARBON 220
RV705	1-228-717-00	RES, ADJ, CERAMIC CARBON 220
RV706	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M
RV707	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M

SPARK GAP

Ref.No	Part No.	Description
SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP
SG704	1-519-063-XX	DISCHARGING GAP
SG705	1-519-063-XX	DISCHARGING GAP
SG706	1-519-063-XX	DISCHARGING GAP

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♦:A-1345-385-A D BOARD, COMPLETE
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CAPACITOR

Ref.No	Part No.	Description			Remark
C501	1-123-024-00	ELECT	33MF		160V
C502	1-123-333-00	ELECT	100MF	20%	25V
C503	1-108-385-00	MYLAR	0.047MF	10%	100V
C504	1-108-365-00	MYLAR	0.001MF	10%	100V
C505	1-108-381-00	MYLAR	0.022MF	10%	100V
C506	1-108-379-00	MYLAR	0.015MF	10%	100V
C507	1-102-989-00	CERAMIC	68PF	5%	500V
C508	1-123-380-00	ELECT	1MF	20%	50V
C509	1-123-380-00	ELECT	1MF	20%	50V
C510	1-108-381-00	MYLAR	0.022MF	10%	100V
C511	1-106-180-00	MYLAR	0.0022MF	5%	100V
C512	1-129-794-00	FILM	0.0033MF	5%	100V
C513	1-123-336-00	ELECT	470MF	20%	25V
C516	1-108-595-00	MYLAR	0.047MF	5%	50V
C517	1-102-228-00	CERAMIC	470PF	10%	500V
C518	1-123-356-00	ELECT	10MF	20%	25V
C519	1-131-367-00	TANTALUM	22MF	10%	20V
C521	1-130-640-00	FILM	0.47MF	5%	50V
C522	1-123-379-00	ELECT	0.47MF	20%	50V
C523	1-123-380-00	ELECT	1MF	20%	50V
C524	1-108-377-00	MYLAR	0.01MF	10%	100V
C525	1-123-380-00	ELECT	1MF	20%	50V
C526	1-108-384-00	MYLAR	0.039MF	10%	100V
C527	1-108-367-00	MYLAR	0.0015MF	10%	100V
C528	1-123-380-00	ELECT	1MF	20%	50V
C529	1-108-198-00	MYLAR	0.012MF	10%	100V
C531	1-123-322-00	ELECT	330MF	20%	16V
C533	1-123-360-00	ELECT	100MF	20%	50V
C534	1-108-377-00	MYLAR	0.01MF	10%	100V
C535	1-108-372-00	MYLAR	0.0039MF	10%	100V
C536	1-124-192-00	ELECT	4.7MF	20%	50V
C537	1-108-377-00	MYLAR	0.01MF	10%	100V
C538	1-108-385-00	MYLAR	0.047MF	10%	100V
C539	1-101-810-00	CERAMIC	100PF	5%	500V
C540	1-108-365-00	MYLAR	0.001MF	10%	100V
C541 ⚠.	1-161-961-11	CERAMIC	0.0022MF	10%	3KV
C542	1-108-387-00	MYLAR	0.068MF	10%	100V
C543 ⚠.	1-130-956-11	FILM	0.0133MF	3%	1.2KV
C544	1-130-959-00	FILM	0.047MF	5%	400V
C545	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C546	1-123-254-00	ELECT	10MF		250V
C547	1-102-038-00	CERAMIC	0.001MF		500V
C548	1-123-357-00	ELECT	22MF	20%	50V
C549	1-123-334-00	ELECT	220MF	20%	25V
C550	1-123-333-00	ELECT	100MF	20%	25V
C551	1-102-038-00	CERAMIC	0.001MF		500V
C552	1-123-346-00	ELECT	220MF	20%	35V
C553	1-108-381-00	MYLAR	0.022MF	10%	100V
C554	1-108-385-00	MYLAR	0.047MF	10%	100V
C555	1-123-332-00	ELECT	47MF	20%	16V
C556	1-123-332-00	ELECT	47MF	20%	16V
C557	1-130-547-00	FILM	1.5MF	5%	200V
C558	1-136-105-00	MYLAR	0.33MF	10%	250V
C559	1-108-377-00	MYLAR	0.01MF	10%	100V
C560	1-130-547-00	FILM	1.5MF	5%	200V
C561	1-123-356-00	ELECT	10MF	20%	25V

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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Ref.No	Part No.	Description			Remark
C562	1-102-002-00	CERAMIC	680PF	10%	500V
C563	1-123-379-00	ELECT	0.47MF	20%	50V
C564	1-101-003-00	CERAMIC	0.0047MF		50V
C565	1-108-381-00	MYLAR	0.022MF	10%	100V
C566	1-108-377-00	MYLAR	0.01MF	10%	100V

CONNECTOR

D1	♠:1-508-765-00	3P PLUG (M)
D2	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
D3	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
D4	♠:1-508-786-00	2P PLUG (M)
D5	♠:1-508-767-00	5P PLUG
D6	♠:1-508-784-00	1P PLUG
D7	♠:1-508-784-00	1P PLUG
D8	♠:1-508-784-00	1P PLUG

DIODE

D501	8-719-811-48	DIODE ISS148
D502	8-719-811-48	DIODE ISS148
D504	8-719-811-48	DIODE ISS148
D506	8-719-300-45	DIODE EM1Z
D507	8-719-305-15	DIODE GH3F
D508	8-719-928-08	DIODE ERD28-08S
D509	8-719-903-09	DIODE V30N
D510	8-719-300-76	DIODE RH1A
D511	8-719-901-93	DIODE V19E
D512	8-719-901-93	DIODE V19E
D513	8-719-901-93	DIODE V19E
D514	8-719-300-45	DIODE EM1Z
D515	8-719-300-45	DIODE EM1Z

DELAY LINE

DY1	♠:1-506-348-XX	3P PLUG (L)
DY2	♠:1-506-348-XX	3P PLUG (L)

IC

IC501	8-759-100-60	IC UPC1377C
IC502	8-759-113-78	IC UPC1378H-L
IC503	6-066-717-10	IC TDA1082
IC505	8-759-700-06	IC NJM7812B
	♠:4-348-704-00	HEAT SINK (A), IC505

COIL

L502	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE 3.3MMH
L503	1-408-225-00	MICRO INDUCTOR 3.3UH
L504	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH
L505	1-459-104-00	COIL, DUST CORE 10MMH
L506	1-408-242-00	MICRO INDUCTOR 10MMH
L507	1-459-241-00	COIL, HORIZONTAL LINIALITY
L508	1-459-390-00	COIL (WITH CORE)
L509	1-408-240-00	MICRO INDUCTOR 6.8MMH

Ref.No	Part No.	Description	Remark

TRANSISTOR

Q501	8-729-245-83	TRANSISTOR 2SC2458
Q502	8-729-168-82	TRANSISTOR 2SC2688
Q503	8-729-301-32	TRANSISTOR 2SC1413A
	3-701-609-00	BUSHING (B), TR, Q503
	♠:4-314-938-01	RETAINER (TO-3), TRANSISTOR, Q503
	♠:4-329-407-00	LUG, GROUND, Q503
	♠:4-336-010-00	HEAT SINK, Q503
	♠:4-362-210-00	SHEET (TO-3), Q503
Q509	8-729-313-42	TRANSISTOR 2SD1134
	♠:4-323-833-00	HEAT SINK, PIN OUT, Q509

RESISTOR

R501	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R502	1-215-140-00	METAL	330	5%	1/4W	
R503	1-247-613-00	CARBON	6.8K	5%	1/8W	
R504	1-215-198-00	METAL	82K	5%	1/4W	
R505	1-215-164-00	METAL	3.3K	5%	1/4W	
R506	1-247-168-00	METAL	36K	5%	1/4W	
R507	1-215-178-00	METAL	12K	5%	1/4W	
R511	1-215-140-00	METAL	330	5%	1/4W	
R512	1-214-768-00	METAL	43K	1%	1/4W	
R513	1-215-168-00	METAL	4.7K	5%	1/4W	
R514	1-215-182-00	METAL	18K	5%	1/4W	
R515	1-215-168-00	METAL	4.7K	5%	1/4W	
R516	1-215-168-00	METAL	4.7K	5%	1/4W	
R517	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R518	1-215-142-00	METAL	390	5%	1/4W	
R519	1-215-162-00	METAL	2.7K	5%	1/4W	
R520	1-214-770-00	METAL	51K	1%	1/4W	
R521	1-215-148-00	METAL	680	5%	1/4W	
R522	1-247-120-00	METAL	360	5%	1/4W	
R523	1-214-755-00	METAL	12K	1%	1/4W	
R524	1-214-759-00	METAL	18K	1%	1/4W	
R525	1-215-194-00	METAL	56K	5%	1/4W	
R526	1-215-162-00	METAL	2.7K	5%	1/4W	
R527	1-215-166-00	METAL	3.9K	5%	1/4W	
R528	1-215-138-00	METAL	270	5%	1/4W	
R530	1-206-694-00	METAL OXIDE	18K	5%	2W	F
R531	1-215-198-00	METAL	82K	5%	1/4W	
R532	1-215-152-00	METAL	1K	5%	1/4W	
R533	1-247-095-00	METAL	33	5%	1/4W	
R544	1-215-200-00	METAL	100K	5%	1/4W	
R545	1-215-180-00	METAL	15K	5%	1/4W	
R546	1-215-176-00	METAL	10K	5%	1/4W	
R547	1-215-148-00	METAL	680	5%	1/4W	
R551	1-247-783-00	CARBON	10	5%	1/8W	F
R552	1-213-137-00	METAL OXIDE	330	5%	1W	F
R553	1-213-137-00	METAL OXIDE	330	5%	1W	F
R554	1-215-174-00	METAL	8.2K	5%	1/4W	
R555	1-215-188-00	METAL	33K	5%	1/4W	
R556	1-215-194-00	METAL	56K	5%	1/4W	
R557	1-215-182-00	METAL	18K	5%	1/4W	

Ref.No	Part No.	Description				Remark
R558	1-215-182-00	METAL	18K	5%	1/4W	
R559	1-215-169-00	METAL	5.1K	5%	1/4W	
R560	1-215-167-00	METAL	4.3K	5%	1/4W	
R561	1-215-196-00	METAL	68K	5%	1/4W	
R562	1-215-182-00	METAL	18K	5%	1/4W	
R563	1-215-136-00	METAL	220	5%	1/4W	
R564	1-215-176-00	METAL	10K	5%	1/4W	
R565	1-215-192-00	METAL	47K	5%	1/4W	
R566	1-215-130-00	METAL	120	5%	1/4W	
R567	1-205-642-00	CEMENTED	3.3K	10%	5W	
R568	1-246-995-00	CARBON	1.8K	5%	1/8W	F
R569	1-247-831-00	CARBON	1K	5%	1/8W	F
R570	1-246-979-00	CARBON	1.2	5%	1/8W	F
R571	1-247-636-00	CARBON	0.47	5%	1/8W	F
R573	1-247-636-00	CARBON	0.47	5%	1/8W	F
R574	1-202-407-15	SOLID	10K	5%	1/4W	
R575	1-215-170-00	METAL	5.6K	5%	1/4W	
R576	1-214-779-00	METAL	120K	1%	1/4W	
R577	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R578	1-213-132-00	METAL OXIDE	120	5%	1W	F
R579	1-213-147-00	METAL OXIDE	2.2K	5%	1W	F
R599	1-247-131-00	METAL	1K	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV501	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV502	1-228-719-00	RES, ADJ, CERAMIC CARBON 470
RV504	1-224-248-XX	RES, ADJ, METAL GLAZE 470
RV505	1-228-718-00	RES, ADJ, CERAMIC CARBON 330
RV506	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV507	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K
RV508	1-223-102-00	RES, ADJ, WIREWOUND 120

SPARK GAP

Ref.No	Part No.	Description
SG501	1-519-063-XX	DISCHARGING GAP

TRANSFORMER

Ref.No	Part No.	Description
T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE
T503	1-421-520-00	TRANSFORMER, FERRITE (PHT)

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♠:1-610-004-00 J2 BOARD
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CAPACITOR

Ref.No	Part No.	Description		
C951	1-101-003-00	CERAMIC	0.0047MF	50V
C952	1-101-003-00	CERAMIC	0.0047MF	50V

CONNECTOR

Ref.No	Part No.	Description
J4	♠:1-560-278-00	PLUG, CONNECTOR 3P
J5	♠:1-560-278-00	PLUG, CONNECTOR 4P

JACK

Ref.No	Part No.	Description
J951	1-507-657-00	JACK

RESISTOR

Ref.No	Part No.	Description			
R951	1-244-865-00	CARBON	470	5%	1/2W
R952	1-244-865-00	CARBON	470	5%	1/2W

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♠:1-610-005-00 J3 BOARD
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CONNECTOR

Ref.No	Part No.	Description
J6	♠:1-508-766-00	4P PLUG (M)
J7	♠:1-556-555-00	CONNECTOR, BOARD IN 5P

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♠:1-610-003-00 J1 BOARD
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CAPACITOR

Ref.No	Part No.	Description			
C901	1-101-003-00	CERAMIC	0.0047MF		50V
C902	1-101-003-00	CERAMIC	0.0047MF		50V
C903	1-102-973-00	CERAMIC	100PF		50V
C904	1-102-973-00	CERAMIC	100PF		50V
C905	1-101-003-00	CERAMIC	0.0047MF		50V
C906	1-101-003-00	CERAMIC	0.0047MF		50V
C907	1-110-182-81	MYLAR	0.022MF	10%	250V
C908	1-110-182-81	MYLAR	0.022MF	10%	250V

CONNECTOR

Ref.No	Part No.	Description
J1	♠:1-560-278-00	PLUG, CONNECTOR 10P
J2	♠:1-560-278-00	PLUG, CONNECTOR 3P
J3	♠:1-560-278-00	PLUG, CONNECTOR 4P
J8	♠:1-560-278-00	PLUG, CONNECTOR 3P

JACK

Ref.No	Part No.	Description
J901	1-526-728-00	SOCKET, SPEAKER
J902	1-526-728-00	SOCKET, SPEAKER
J903	1-561-580-21	JACK, DIN 6P
J904	1-562-119-00	CONNECTOR (REC P/B) 5P

RESISTOR

Ref.No	Part No.	Description			
R901	1-247-831-00	CARBON	1K	5%	1/6W
R902	1-247-823-00	CARBON	470	5%	1/6W
R903	1-247-823-00	CARBON	470	5%	1/6W

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♠:1-610-001-00 H BOARD
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♠:4-366-807-00 COVER (C), LED HOLDER

H **N**

Ref.No	Part No.	Description	Remark
		CAPACITOR	
C401	1-123-612-00	ELECT 2.2MF 20% 50V	
C402	1-123-608-00	ELECT 0.22MF 20% 50V	
		DIODE	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119	
D405	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119	
D407	8-719-911-19	DIODE 1SS119	
D408	8-719-911-19	DIODE 1SS119	
D409	8-719-911-19	DIODE 1SS119	
D410	8-719-911-19	DIODE 1SS119	
D411	8-719-911-19	DIODE 1SS119	
LED401	8-719-803-20	DIODE TLR320	
	♠:1-526-634-00	SOCKET, IC (8P), LED401	
LED402	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED ,LED402	
LED404	8-719-800-24	DIODE TLR147	
	♠:4-362-207-00	HOLDER (P), LED, LED404	
LED406	8-719-901-96	DIODE SLP161B	
	♠:4-357-812-00	HOLDER, LED, LED406	
	♠:4-362-219-00	COVER (W), LED HOLDER, LED406	
LED408	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED, LED408	
LED409	8-719-901-96	DIODE SLP161B	
	♠:4-362-295-00	HOLDER (C), LED, LED409	
		TRANSISTOR	
Q401	8-729-117-54	TRANSISTOR 2SA1175	
Q402	8-729-245-83	TRANSISTOR 2SC2458	
Q403	8-729-245-83	TRANSISTOR 2SC2458	
Q404	8-729-117-54	TRANSISTOR 2SA1175	
Q405	8-729-245-83	TRANSISTOR 2SC2458	
Q408	8-729-245-83	TRANSISTOR 2SC2458	
Q409	8-729-245-83	TRANSISTOR 2SC2458	
		RESISTOR	
R401	1-247-861-00	CARBON 18K 5% 1/6W	
R402	1-247-827-00	CARBON 680 5% 1/6W	
R403	1-247-831-00	CARBON 1K 5% 1/6W	
R404	1-247-865-00	CARBON 27K 5% 1/6W	
R405	1-247-863-00	CARBON 22K 5% 1/6W	
R406	1-247-867-00	CARBON 33K 5% 1/6W	
R407	1-247-843-00	CARBON 3.3K 5% 1/6W	
R408	1-247-863-00	CARBON 22K 5% 1/6W	
R409	1-247-863-00	CARBON 22K 5% 1/6W	
R411	1-247-871-00	CARBON 47K 5% 1/6W	
R413	1-247-895-00	CARBON 470K 5% 1/6W	
R415	1-247-863-00	CARBON 22K 5% 1/6W	
R416	1-247-833-00	CARBON 1.2K 5% 1/6W	
R417	1-247-831-00	CARBON 1K 5% 1/6W	
R418	1-247-831-00	CARBON 1K 5% 1/6W	
R419	1-247-839-00	CARBON 2.2K 5% 1/6W	
R421	1-247-831-00	CARBON 1K 5% 1/6W	
R423	1-247-807-00	CARBON 100 5% 1/6W	
R425	1-247-811-00	CARBON 150 5% 1/6W	
R427	1-247-863-00	CARBON 22K 5% 1/6W	
R428	1-247-863-00	CARBON 22K 5% 1/6W	
R430	1-247-863-00	CARBON 22K 5% 1/6W	
R431	1-247-847-00	CARBON 4.7K 5% 1/6W	
R432	1-247-847-00	CARBON 4.7K 5% 1/6W	
R433	1-247-847-00	CARBON 4.7K 5% 1/6W	
R434	1-247-863-00	CARBON 22K 5% 1/6W	
R435	1-247-871-00	CARBON 47K 5% 1/6W	
R436	1-247-863-00	CARBON 22K 5% 1/6W	
R437	1-247-857-00	CARBON 12K 5% 1/6W	
R439	1-247-849-00	CARBON 5.6K 5% 1/6W	
R440	1-247-861-00	CARBON 18K 5% 1/6W	
		VARIABLE RESISTOR	
RV401	1-228-540-00	RES, VAR, CARBON 10K	
RV402	1-228-539-00	RES, VAR, CARBON 10K	
RV403	1-228-539-00	RES, VAR, CARBON 10K	
RV404	1-228-539-00	RES, VAR, CARBON 10K	
RV405	1-228-539-00	RES, VAR, CARBON 10K	
RV406	1-228-539-00	RES, VAR, CARBON 10K	
RV407	1-228-539-00	RES, VAR, CARBON 10K	
RV408	1-228-539-00	RES, VAR, CARBON 10K	
RV409	1-228-540-00	RES, VAR, CARBON 10K	
		SWITCH	
S401	1-552-774-00	SWITCH, PUSH	
S402	1-552-774-00	SWITCH, PUSH	
S403	1-552-774-00	SWITCH, PUSH	
S404	1-552-774-00	SWITCH, PUSH	
S405	1-552-774-00	SWITCH, PUSH	
S406	1-552-774-00	SWITCH, PUSH	
S407	1-552-774-00	SWITCH, PUSH	
S408	1-552-774-00	SWITCH, PUSH	
S409	1-552-774-00	SWITCH, PUSH	
S410	1-552-774-00	SWITCH, PUSH	
S411	1-552-774-00	SWITCH, PUSH	
S412	1-554-118-00	SWITCH, PUSH	
S413	1-554-118-00	SWITCH, PUSH	

****

♠:1-606-794-00 N BOARD
****

♠:4-342-117-00 CASE, SHIELD (MAIN), R
♠:4-342-118-00 LID, SHIELD CASE, R

Ref.No	Part No.	Description			Remark

CAPCITOR

Ref.No	Part No.	Description			Remark
C1	1-123-617-00	ELECT	10MF	20%	16V
C2	1-123-617-00	ELECT	10MF	20%	16V
C3	1-123-617-00	ELECT	10MF	20%	16V
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V
C6	1-123-821-00	ELECT	47MF	20%	16V

DIODE

Ref.No	Part No.	Description	Remark
D1	8-719-110-32	DIODE PH302B	

IC

Ref.No	Part No.	Description	Remark
IC1	8-759-113-73	IC UPC1373H	

COIL

Ref.No	Part No.	Description	Remark
L1	1-404-310-00	COIL 4.7MMH	

****

MISCELLANEOUS
****

Ref.No	Part No.	Description	Remark
	⚠.1-228-714-00	RESISTOR ASSY, HIGH-VOLTAGE	
	⚠.1-451-204-00	DEFLECTION YOKE	
	1-452-032-00	MAGNET, DISK; 10MM ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
	1-452-146-00	MAGNET, BMC	
	⚠.1-536-797-00	TERMINAL BOARD ASSY, ANTENNA	
	1-543-179-00	CORE, RING	
	⚠.1-551-427-11	CORD, POWER	
	♦:1-551-604-00	CONNECTOR ASSY, MINIATURE 3P	
	♦:1-551-612-00	CONNECTOR ASSY, MINIATURE (2P)	
	♦:1-551-614-00	CONNECTOR ASSY, MINIATURE 2P	
	♦:1-551-674-00	CONNECTOR ASSY 3P	
	♦:1-551-796-00	CONNECTOR ASSY (2.5MM) 6P	
	♦:1-551-922-00	CONNECTOR ASSY 3P	
	♦:1-555-817-00	CONNECTOR ASSY (2.5MM) 4P	
	♦:1-556-017-00	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-405-00	CONNECTOR, MINIATURE 2P	
	♦:1-556-408-00	CONNECTOR ASSY (LARGE) 3P	
	♦:1-556-412-00	CONNECTOR ASSY (2.5MM) 4P	
	♦:1-556-879-00	CONNECTOR ASSY (2.5MM) 10P	
L901	⚠.1-426-087-61	COIL, DEGAUSSING	
L902	⚠.1-426-087-61	COIL, DEGAUSSING	
S901	⚠.1-553-225-00	SWITCH, PUSH	
SP901	1-503-194-00	SPEAKER	
SP902	1-503-194-00	SPEAKER	
T502	⚠.1-439-303-00	TRANSFORMER ASSY, FLYBACK	
V901	⚠.8-738-704-05	CRT 520SB22	

Ref.No	Part No.	Description	Remark

ACCESSORIES AND PACKING MATERIALS
****

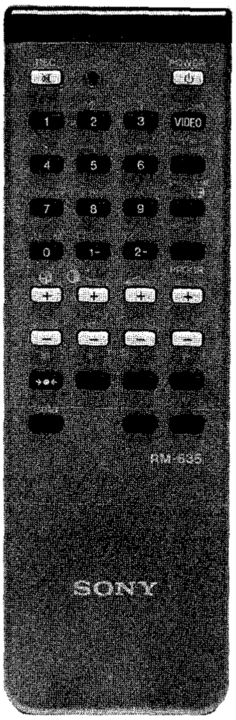
Part No.	Description	Remark
A-1470-621-A	COMMANDER ASSY (RM-635)	
3-701-360-00	LABEL, TACK	
4-362-269-00	BAG, PROTECTION	
4-362-270-00	CUSHION (UPPER) (ASSY)	
4-362-271-00	CUSHION (LOWER) (ASSY)	
4-362-291-00	INDIVIDUAL CARTON	
4-493-822-11	MANUAL, INSTRUCTION	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

RM-635

SERVICE MANUAL



July, 1983

SPECIFICATIONS

Remote control system	Infrared control
Power requirements	3 V dc 2 IEC designation R03 batteries (size AAA)
Dimensions	Approx. 54 × 165 × 16 mm (w/h/d)
Weight	Approx. 100 g including batteries
Accessory supplied	IEC designation R03 battery (2)

REMOTE COMMANDER

SONY®

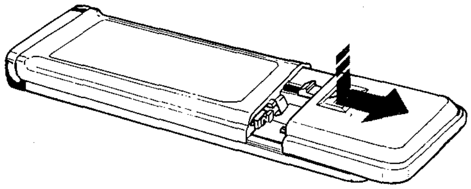
1. REMOTE CONTROL OPERATION

—with the supplied RM-635 Remote Commander

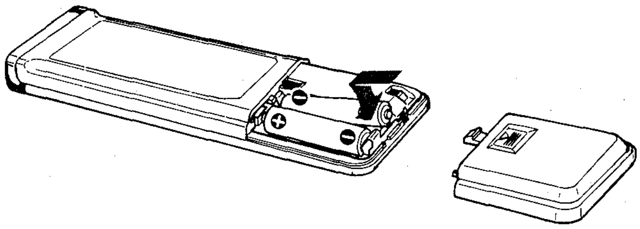
BATTERY INSTALLATION

The Sony RM-635 Remote Commander operates on two supplied IEC designation R03 batteries (size AAA).

1 Remove the battery compartment lid.



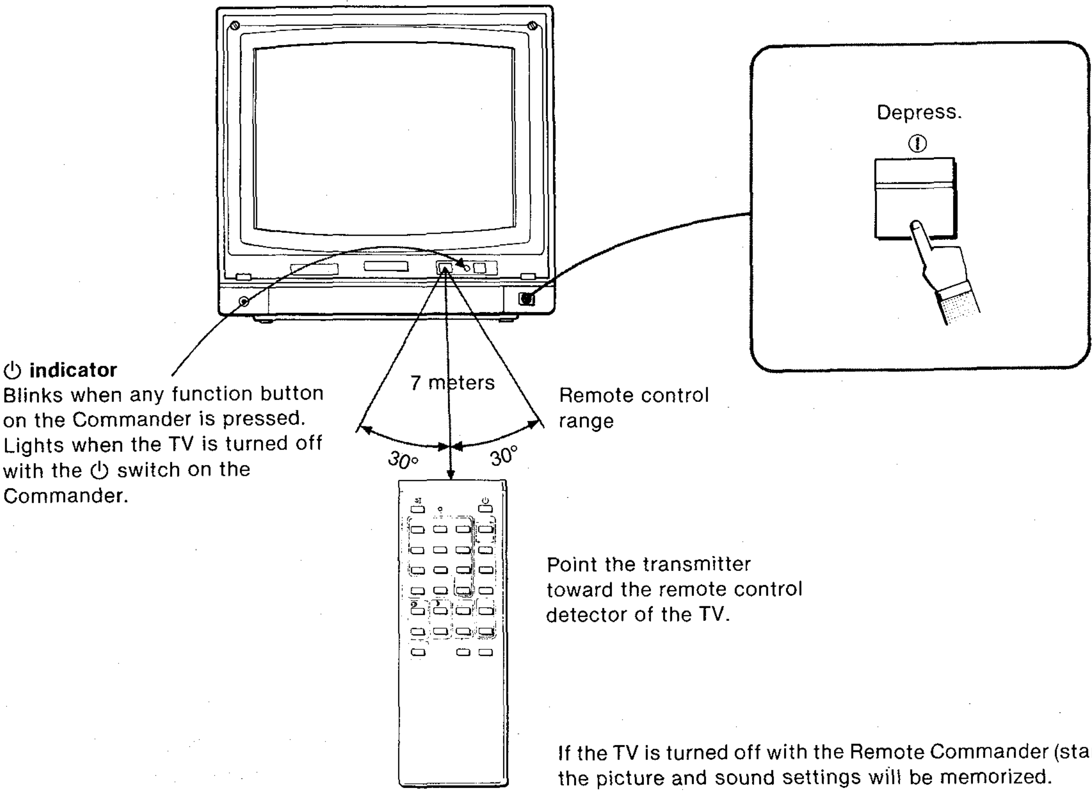
2 Insert batteries observing the correct polarity and close the lid.



NOTES ON THE REMOTE COMMANDER

- In normal use, battery life is up to half a year. When the batteries are exhausted, the Commander will not operate the TV properly. If this happens, replace both batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign object into the cabinet, particularly when replacing batteries.

REMOTE TV OPERATION



⏻ indicator
Blinks when any function button on the Commander is pressed. Lights when the TV is turned off with the ⏻ switch on the Commander.

Remote control range

Point the transmitter toward the remote control detector of the TV.

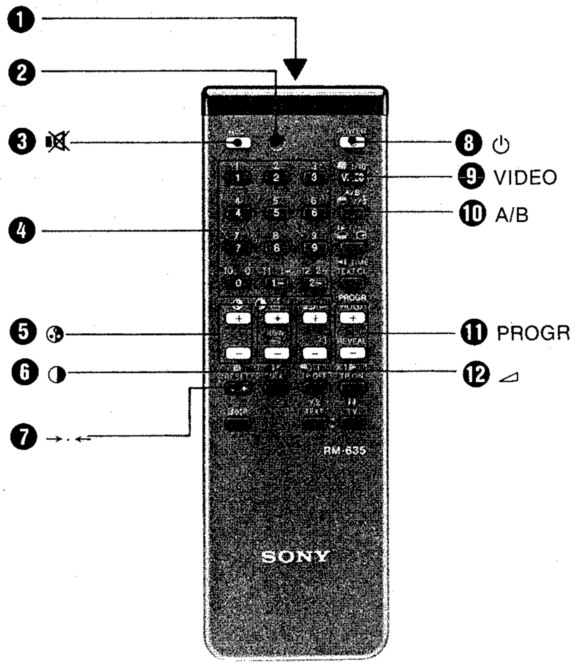
If the TV is turned off with the Remote Commander (standby mode), the picture and sound settings will be memorized.
If the TV is turned off with the ⏼ switch on the TV, they will return to the levels fixed with the controls on the TV.

FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

Each button has different functions for normal TV, teletext and VTR operations.
Functions for operating the TV are indicated **in WHITE**.
Functions for operating the video tape recorder* are indicated **in orange.**
Functions for teletext operation using the optional OPK-103 teletext adaptor* * are indicated **in green.**

*This Remote Commander can control the Sony SL-F1E combined with the TT-F1 series tuner timer unit, and Sony SL-C9 series.
* *A teletext adaptor is built into the KV-2056EC.
For details, please refer to the supplemental instruction manual furnished with the set.

Buttons used for normal TV operations



❶ Transmitter
Point toward the remote control detector

❷ Pilot lamp
Blinks when the Remote Commander is operating.

❸ 🔇 (sound mute) button
When you want to mute the sound, (to answer the telephone, for instance) press this button. To restore the sound, press this button again.

❹ Program number buttons
Programs are displayed by pressing the corresponding numbers. For programs 1 through 9, press the appropriate single-digit button. For programs 10 through 19, first press the [1–] button (the tens-digit " / " will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking).

For example: for program 10, press [1–] and [0].
for program 11, press [1–] and [1].

For programs 20 to 29, press the [2–] button and then the single-digit button.
For program 30, press the [0] button.

Note: If you do not press a single-digit button within several seconds after pressing the [1–] or [2–] button, the previous program setting will be automatically recalled.

❺ ◍ (color) buttons
Adjust the color intensity. Press the + button to increase it, or press the – button to decrease it.

❻ ◑ (picture) buttons
Press the + button to increase the picture contrast, or the – button to decrease it.

❼ →·← (normal) button
Pushing this button once instantly returns the color and contrast settings made with the ◑ and ◍ buttons on the Commander to the initial settings on the TV.

❽ ⏻ (standby) switch
Turns the TV in standby mode. The ⏻ indicator on the TV will light up. To turn on the TV from the standby mode, press a program number button or the →·← button on the Commander.

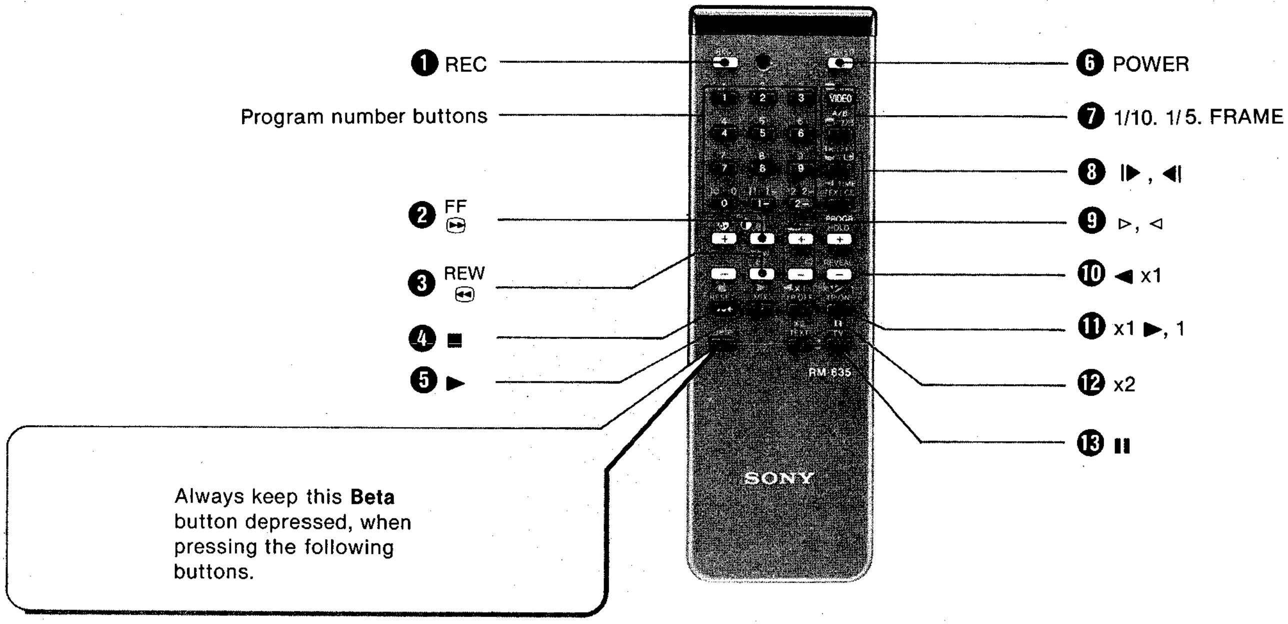
❾ VIDEO button
Functions the same as the TV/VIDEO select button on the TV.

❿ A/B button
Functions the same as the ZWEITON button on the TV.

⓫ PROGR (program) buttons
Function the same as the PROGR select buttons on the TV.

⓬ ⊿ (volume) buttons
Press the + button to increase the volume, or press the – button to decrease it.

Buttons used for VTR operations



Always keep this **Beta** button depressed, when pressing the following buttons.

Buttons which have the same functions for both SL-C9 series and SL-F1E

❶ REC (record) button
Press to start recording.

❷ FF (fast-forward) button
Press to advance the tape rapidly. This button is also used for the forward picture-search operation.

❸ REW (rewind) button
Press to rewind the tape. This button is also used for the reverse picture-search operation.

❹ ■ (stop) button
Press to stop the tape.

❺ ▶ (play) button
Press to play the tape back.

❻ POWER switch
Press to turn the video tape recorder (and the tuner timer unit) on or off.

⓬ x2 (double-speed) button
Functions the same as the x2 button on the video tape recorder. Press to obtain a double-speed playback picture.

⓭ ❙❙ (pause) button
Functions the same as the ❙❙ PAUSE button on the SL-C9 series and the PAUSE button on the SL-F1E. To release the pause mode, press this button again.

Buttons used for the SL-C9 series

❼ Speed control buttons (1/10, 1/5, FRAME)
Function the same as the 1/10, 1/5 and FRAME of the SPEED CONTROL buttons on the recorder.

❾ ▷ (forward) and ◁ (reverse) buttons
Select the direction of the speed control playback. Function the same as the ▷ and ◁ buttons of SPEED CONTROL buttons on the recorder.

⓫ 1 (normal speed) button
Functions the same as the 1 button of the SPEED CONTROL buttons on the recorder.

Buttons used for the SL-F1E

❽ ❙▶ (forward slow motion) and ◀❙ (reverse slow motion) buttons
Function the same as the ❙▶ and ◀❙ SWING SEARCH buttons on the SL-F1E.

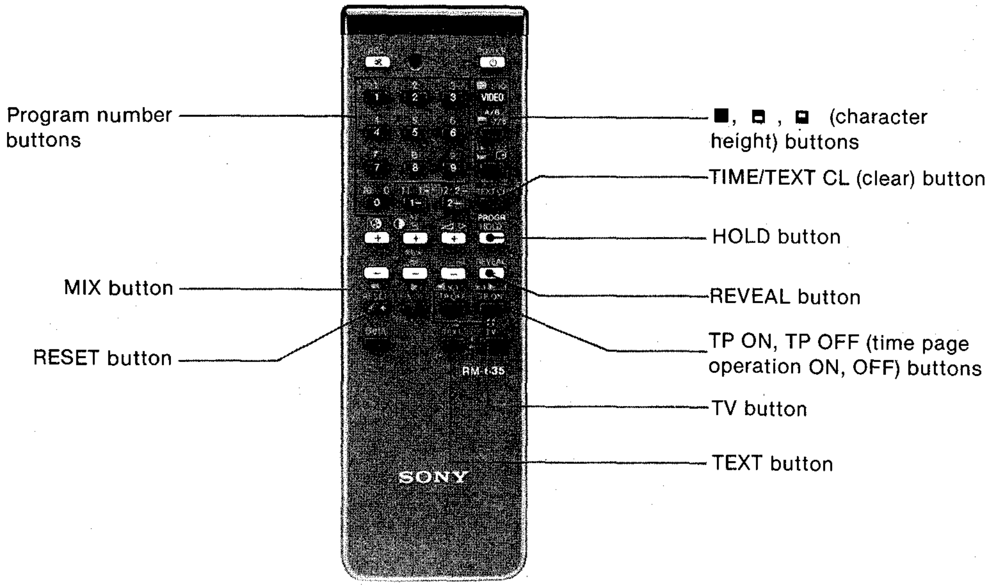
❿ ◀ x1 (reverse) button and ⓫ x1 ▶ (forward) button
Function the same as the ◀ and ▶ SWING SEARCH buttons on the SL-F1E.

Buttons used for teletext operations

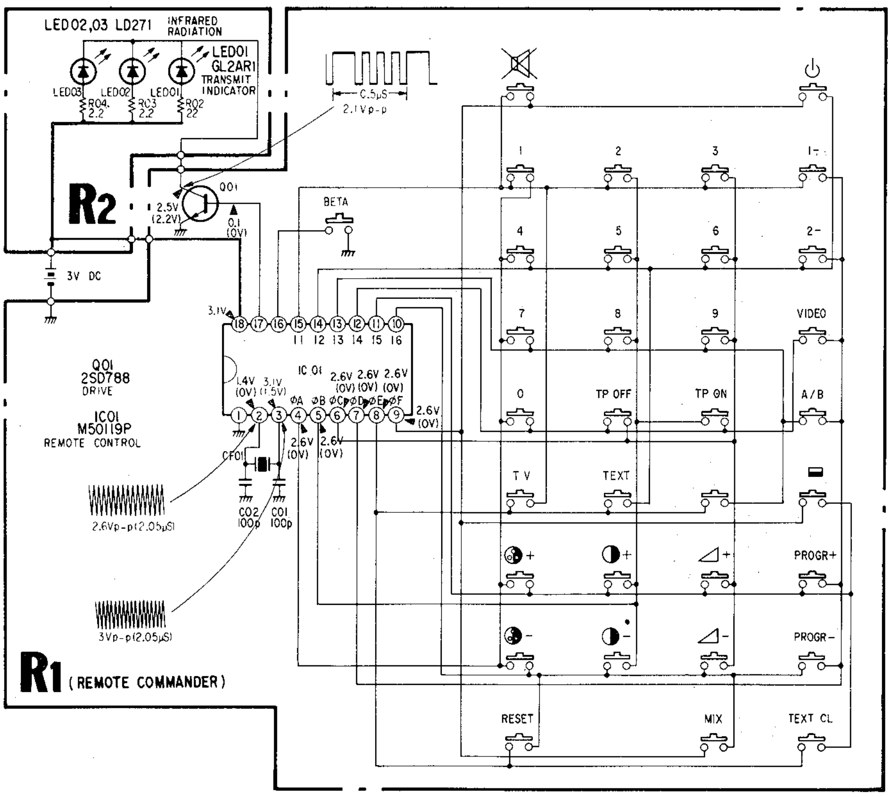
The following functions are for operating the TV as a teletext display by installing the optional Sony OPK-103 teletext adaptor. For details, please consult a dealer prepared to install a teletext adaptor.

A teletext adaptor is built into the KV-2056EC.

For details, please refer to the supplemental instruction manual furnished with the set.


Program number buttons
MIX button
RESET button
■, ▣ , ◘ (character height) buttons
TIME/TEXT CL (clear) button
HOLD button
REVEAL button
TP ON, TP OFF (time page operation ON, OFF) buttons
TV button
TEXT button
VIDEO
PROGR HOLD
REVEAL
RM-t35
SONY

2. SCHEMATIC DIAGRAM


LED02,03 LD271
INFRARED RADIATION
LED01 GL2AR1
TRANSMIT INDICATOR
LED03
LED02
LED01
R04 2.2
R03 2.2
R02 22
0.5μS
2.1Vp-p
R2
Q01
2.5V (2.2V)
0.1 (0V)
BETA
3V DC
3.1V
Q01 2SD788 DRIVE
IC01 M50119P REMOTE CONTROL
IC 01
1.4V (0V)
3.1V (1.5V)
2.6V (0V)
ΦA ΦB ΦC ΦD ΦE ΦF
CF01
C02 100p
C01 100p
2.6Vp-p(2.05μS)
3Vp-p(2.05μS)
R1 (REMOTE COMMANDER)
1 2 3 1-
4 5 6 2-
7 8 9 VIDEO
0 TP OFF TP ON A/B
TV TEXT
PROGR+
PROGR-
RESET MIX TEXT CL

MODE \ IC PIN	10	11	12	13	14	15	16	17
⏻	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
🔇	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
1	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
2	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
3	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
4	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
5	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
6	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
7	3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
8	3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
9	3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
0	3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0
1-	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
2-	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
VIDEO	3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0
TP OFF	3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0.2
TP ON	3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0.2
A · B	3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0.2
TV	3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
TEXT	3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
VIEWDATA	3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
▬	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◍ +	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◍ −	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◑ +	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◑ −	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◢ +	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
◢ −	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
PROGR +	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
PROGR −	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
RESET	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0
MIX	2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0
TEXT CL	3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. k: 1000Ω, M: 1000kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages and waveform are for when A/B button is pressed.
- Voltages in ( ) are taken with button not pressed.

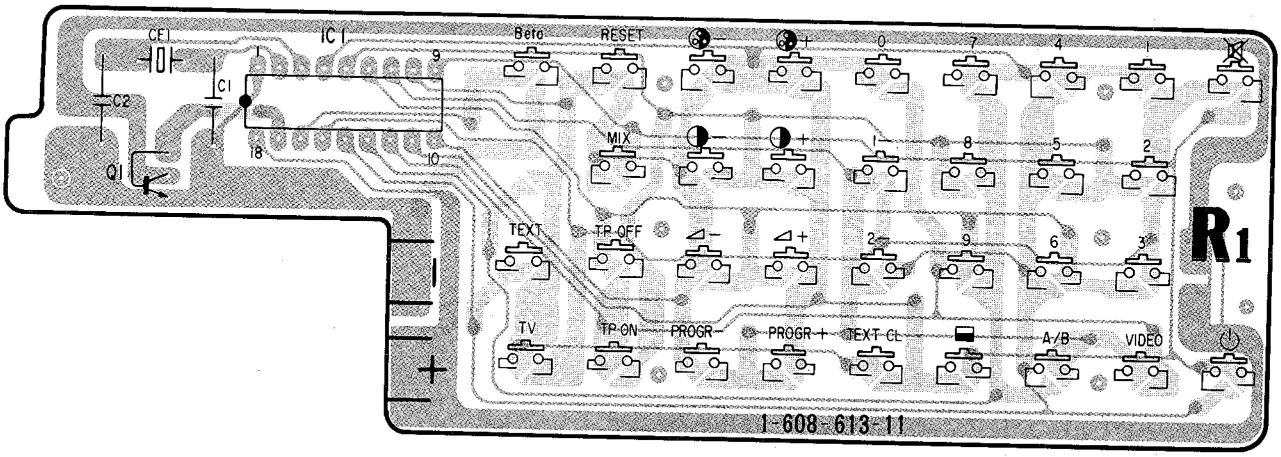
3. PRINTED WIRING BOARDS

— Conductor Side —

A B C D

1

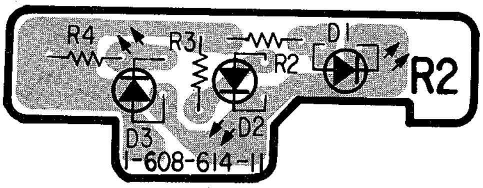
— R1 Board —


CE1
IC1
C1
C2
Q1
1
9
18
10
Beto
RESET
−
+
0
7
4
1
MIX
−
+
1
8
5
2
R1
TEXT
TP OFF
−
+
2
9
6
3
TV
TP ON
PROGR−
PROGR+
TEXT CL
A/B
VIDEO
−
+
1-608-613-11

2

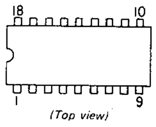
— R2 Board —

3

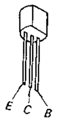

R4
R3
R2
D1
R2
D3
D2
1-608-614-11

4

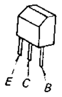
M50119P


18
10
1
9
(Top view)

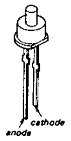
2SC1474
2SD788



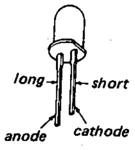
2SD773



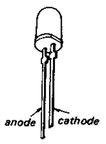
GL-2AR1


cathode
anode

LD271


long
short
anode
cathode

SE303A
SE303AX
SE303AY


anode
cathode

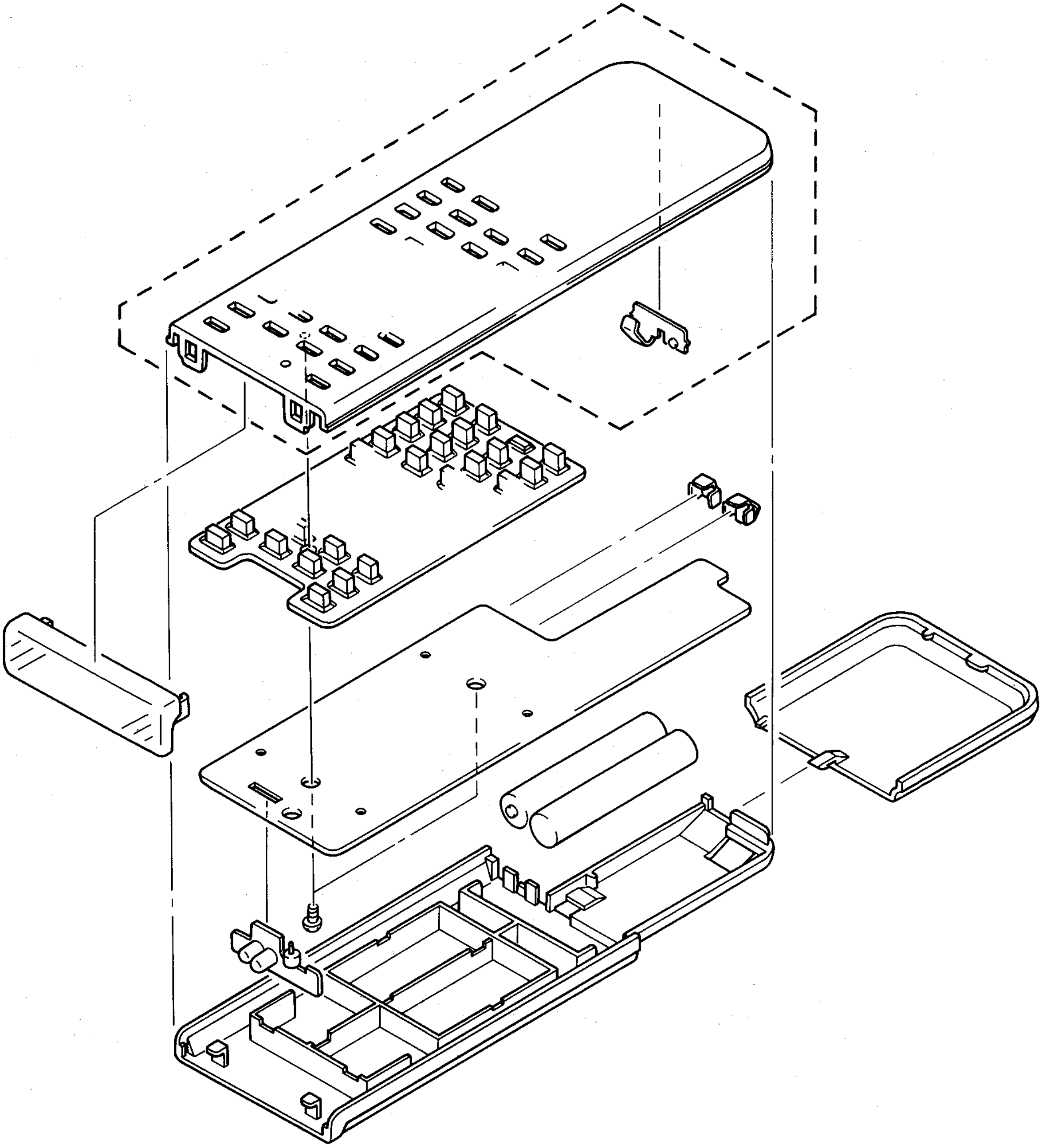
5

4. EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

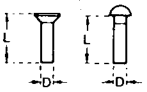


No.	Part No.	Description	Remark
1	X-4362-211-0	CASE (UPPER) ASSY, COMMANDER	
2	4-361-948-00	CASE (LOWER), COMMANDER	
3	4-361-945-00	COVER, BATTERY	
4	4-361-943-00	PANEL, FRONT, COMMANDER	
5	4-361-944-21	SHEET, RUBBER	
6	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
7	♠:1-608-613-00	R1 BOARD	
8	♠:1-608-614-00	R2 BOARD	

HARDWARE NOMENCLATURE

Screw: – P 3 x 10

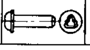
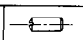
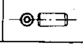
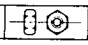
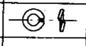
L: Length in mm
D: Diameter in mm
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means
cross-recessed head (Phillips type).



Nut, Washer, Retaining ring:

N 3
Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

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5. ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

Ref.No	Part No.	Description				Remark
	♠:1-608-613-00	R1 BOARD ********				
	4-348-542-00	TERMINAL (A), BATTERY				
	4-348-543-00	TERMINAL (B), BATTERY				
		CAPACITOR				
C01	1-161-271-00	CERAMIC	100PF	5%	50V	
C02	1-161-271-00	CERAMIC	100PF	5%	50V	
		FILTER				
CF01	1-527-476-00	OSCILLATOR, CERAMIC				
CF01	1-527-476-00	OSCILLATOR, CERAMIC				
		IC				
IC01	8-759-600-07	IC M50119P				
		TRANSISTOR				
Q01	8-729-177-33	TRANSISTOR 2SD773				

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Ref.No	Part No.	Description				Remark
	♠:1-608-614-00	R2 BOARD ********				
		DIODE				
D01	8-719-900-23	DIODE GL2AR1				
LED02	8-719-193-03	DIODE SE303AX				
LED03	8-719-193-03	DIODE SE303AX				
		RESISTOR				
R02	1-247-791-00	CARBON	22	5%	1/6W	
R03	1-247-767-00	CARBON	2.2	5%	1/6W	
R04	1-247-767-00	CARBON	2.2	5%	1/6W	